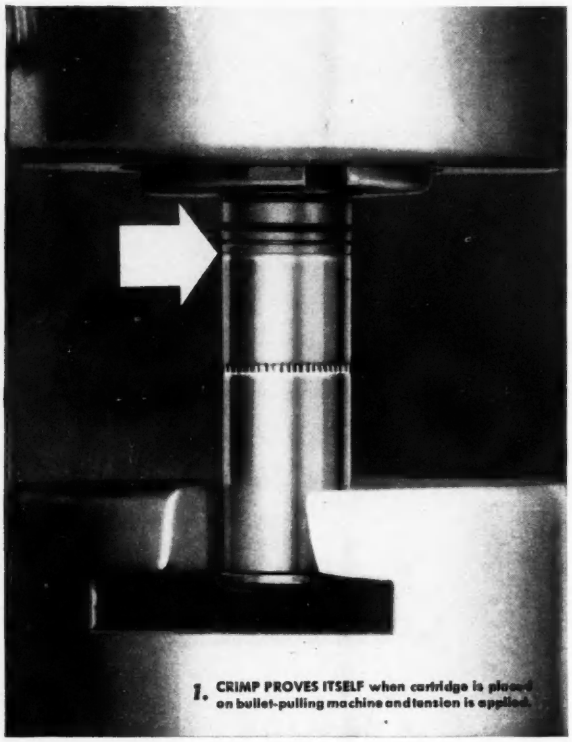
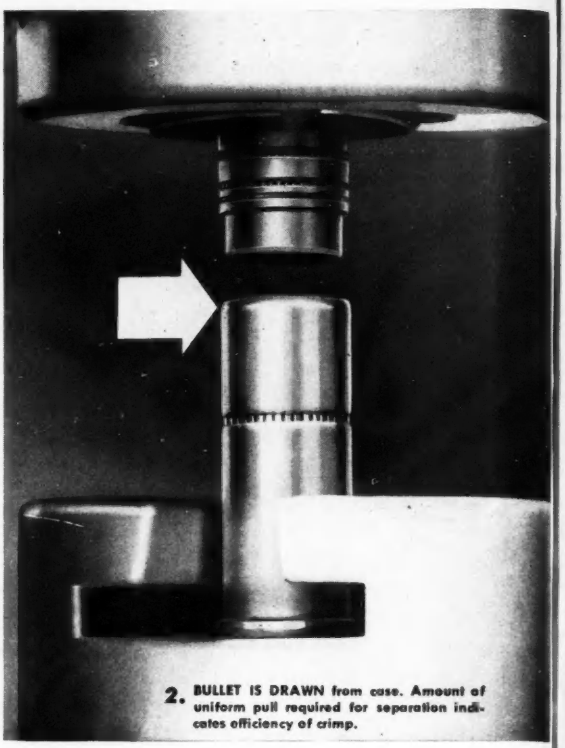
NAVAHO TRADITIONAL

CA. 8267 C-267 L.T. 11-18-37
- M. BURCHARD
- 269
-ALIF.



1. CRIMP PROVES ITSELF when cartridge is placed on bullet-pulling machine and tension is applied.



2. BULLET IS DRAWN from case. Amount of uniform pull required for separation indicates efficiency of crimp.

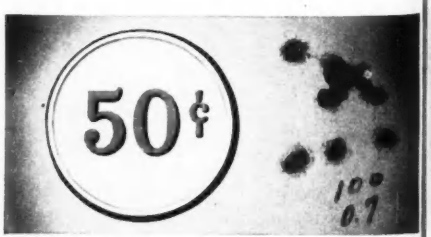
Pull-apart test has hand in high scores

"BUILDER-UPPERS . . . breaker-downers!" That's the reputation of Peters technical men. For they not only put match cartridges together . . . they pull them apart. The test you see above, made by a Peters bullet-pulling machine, checks samples from every lot of Peters match ammunition for uniform perfection in crimping, so important to fine accuracy and high scores on the range. To meet the rigid specifications of Peters 22 match cartridges, the amount of bullet pull must be within closely controlled tolerances.

This is one of many checks made by Peters technical men to assure exactness of match cartridge manufacture. These tests mean that every Peters match cartridge you shoot is the same as every other, to an unbelievably precise degree. Hence, along with your good aim and steady hold, these cartridges pack the accuracy you need for *possible after possible* on rifle or pistol ranges.

Next time you go pistol shooting, load up for a possible with Peters Police Match or Peters Target 22's. Made *by* experts *for* experts—for *any* make of modern American pistol or rifle—*there's no more accurate rim fire ammunition in the world!*

TO BACK UP your good aim, Peters technical men study Peters match ammunition for maintenance of close tolerances . . . assurance of perfect shooting, maximum accuracy.



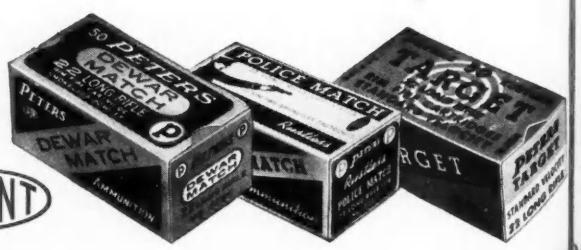
THE PROOF IS IN THE POSSIBLES! 50¢ piece covers this Peters Police Match 22 group, shot by machine rest pistol with 6" barrel at 50 yards.

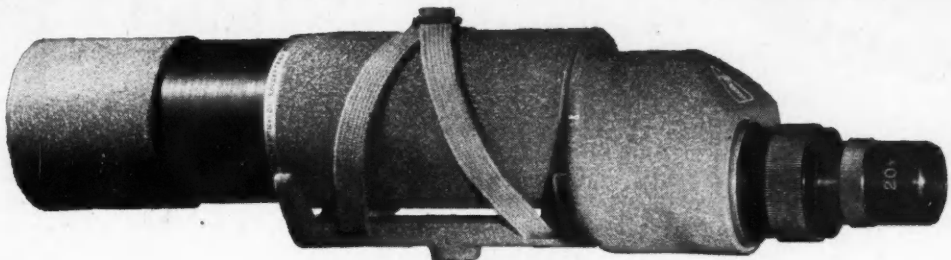
PETERS

PACKS THE POSSIBLES

PETERS CARTRIDGE DIVISION — *Remington Arms Company, Inc., Bridgeport 2, Conn.—"Dewar Match" and "Target" are Reg. U.S. Pat. Off.—"Police Match" is a trademark of Peters Cartridge Division.*

DU PONT





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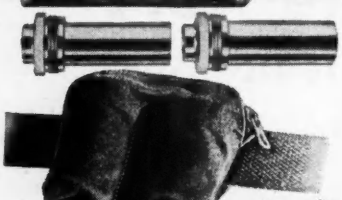

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RIFLEMAN WORDS • • • •

Each month this 'lexicon for shooters' is devoted to a few words peculiar to the shooting game which may be puzzling to the newcomer.

ATMOSPHERE—The average pressure of the air at sea level. It is equivalent to about 14.7 pounds per square inch.

BALL—A bullet. The word is a hang-over from the days when a round ball was the only projectile used in firearms. Today ball ammunition is any ammunition loaded with a single projectile, regardless of the shape of that projectile.

BLOWBACK—A term commonly used to describe the backward escape of powder and primer gases from the chamber around the breech-block or bolt due to a split or ruptured cartridge case or punctured primer.

EXTRAVASATED BLOOD—Blood which has been forced out of its normal vessels into surrounding tissues.

GUARD SCREWS—Screws or bolts extending from the trigger guard upward through the stock and threaded into the underside of the receiver, firmly securing the receiver to the stock.

KEYHOLING—The failure of a bullet to remain gyroscopically balanced, with the result that it gyrates and eventually tumbles end over end. A tumbling or yawing bullet leaves an elongated hole in the target, hence 'keyholing'.

KINETIC ENERGY—Energy due to motion, as of a moving body or particle, which is numerically expressed as half the product of its mass times the square of its velocity (K.E. = $\frac{1}{2}mv^2$).

MIRAGE—When the air next to the ground is at a different temperature from that in higher strata, heat waves are visible which produce optical illusions. These heat waves are commonly referred to as mirage. The direction in which the heat waves are running can be observed by the shooter and are an aid in 'doping' the wind.

MUZZLE BRAKE—Also known as compensator. A device attached to the muzzle of a gun which is designed to deflect the propelling gases emerging from the muzzle behind the bullet and to utilize the energy of these gases to pull the gun forward to counter the recoil of the weapon. The location of the gas ports in the muzzle brake or compensator may also minimize muzzle flip or jump.

SCHUETZENFEST (German) — Literally shooting festival.

STABILIZED BULLET—A bullet in flight which has the proper amount of spin to prevent it from tumbling or yawing excessively. The stability of the bullet is governed by gyroscopic action.

TARAGE—Mathematical table used to convert the time interval data obtained from chronograph readings into actual velocities expressed in feet per second.

YAW—Occurs when the axis of the bullet at an angle to the path of the trajectory with the result that the nose of the bullet rotates about the trajectory.

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Display your guns—dress up your den. Beautifully finished genuine mahogany. Rack holds 3 guns. Mounting brackets included. SPECIAL!

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rt, 49 March and Stream 145 Fish- n reported ought more with Fire- Phenomenal tron" Fiber to 5 times brilliant ordinary materials. Famous ker has tied famous patterns s in Trout, Bass or Panfish ments. (State Choice.)

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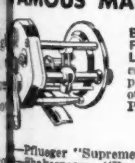

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3—Hi-Standard Model H-B 22 Automatic Pistol. High Quality—Low Price. 10-shot. 4½ in. or 6¾ in. barrel.

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"All-Star" means PERFORMANCE, DEPENDABILITY and QUALITY!

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DAMASCUS BARRELS

Haverford, Pa.

Editor:

Having just read Mr. Pierre Pulling's article on "Damascus Barrel Bogey", I received the distinct impression that he is still much in favor of Damascus—if properly loaded. However, I feel that I cannot keep still for I believe he has overlooked some very important facts.

When Damascus barrels were in, thermostatically controlled furnaces were not yet devised and the welding had to be done at varying temperatures—color was the usual guide. Consider the number of welds, or the length of all the little lines which indicate where the welds are, and then realize that it takes but one small failure in the welding process to start the way to a blown barrel.

"It is better to be safe than sorry."

RODNEY DAY

Charleston, S. C.

Editor:

It was certainly a great pleasure to me to read the article "Damascus Barrel Bogey" by Pierre Pulling in the April RIFLEMAN, and I congratulate you on being willing to publish it.

Damascus barrels may be dangerous with our *modern* smokeless powders, but they are perfectly safe with any old type bulk smokeless, such as was loaded in our shells in the days when most of our higher grade guns were furnished with Damascus barrels.

For those who may own fine old guns, and yet do not know how to handload their shells or do not care to bother with it, they can procure from England loaded shells of any load that are perfectly safe and the cost plus duty and transportation is not very much more than our own product. I personally imported some loads for my featherweight Francotte Damascus 12 that give perfect satisfaction being loaded with 'Diamond' powder.

GEORGE D. CANFIELD

SHOOTING THE CB'S

Dayton, Ohio

Editor:

In the March 1949 issue of THE AMERICAN RIFLEMAN are two letters concerning my article on "Shooting the CB's", one by Mr. Richard D. Barton and the other by Mr. Charles L. Andrews III, which rightly deserve comment and answers to eliminate possible further danger to shooters.

Mr. Andrews mentions the use of greased felt patches in the place of grease over the loaded balls in a muzzle-loading revolver. I have never used or heard of the idea but it sounds very good indeed and I will certainly try it and am very glad to get the suggestion.

Mr. Barton correctly points out the dangers of fulminate caps which often leave just a trace of the unfired touchy stuff on the nipple from a previous load. This trace is sometimes enough to ignite the powder of the following load and should the hammer fall during the loading process a serious accident might result.

I wrote the article late in 1947 and did not become aware of this fact until the summer of 1948 when a number of shooters 'di covered' this danger particularly from t use of postwar caps.

I would like to point out, however, th the pictures in my article are correct a show the guns in a *safe* loading conditio The Aston pistol has a half-cock positi where the hammer is locked into position a cannot fall and is therefore safe for loadi It was designed for loading with the hamm in the half-cock position. This permitted air from the barrel to escape through nipple when the patched bullet was pus down on the powder and of particular portance the escaping air carried pow into the nipple so that it would be instan ignited by the flash from the cap. T avoided both misfires and hangfires.

The Remington revolvers also had a ha cock position which similarly locked the ha mer in a safe position. It additionally leased the cylinder locking bolt which th permitted the cylinder to turn freely so t all the ports could be loaded without furt manipulation of the hammer. This eli nates the necessity for letting the hamm down on the nipple and then re-cocking rotate the cylinder for each successive p loading, which would introduce a possi danger and should be avoided.

Since safety is always stressed in muzz loading shooting, I learned the use of t half-cock position before I fired my first C shot and it became such a rigid routine forgot to mention this important point in article. The photographs were made of *actual* loading operation and through lo habit the guns were properly 'half-cocked'.

It seems that the designers of these guns were perfectly aware of the dange attendant to their loading and provided a quate safety measures.

H. V. NOBLE

DRILLS AND TAPS

Highland Park, Ill.

Editor:

Evidently Mr. M. G. Holmes (page March) has struck upon a method for dri ing and tapping holes wherein it will longer be necessary to worry about look up the size and carrying tap drills aro

Just drill a ¼ hole and you can have y choice of tapping ¼-28 or ¼-20. No tra at all, two taps and one drill, which could used as a body (clearance) drill or tap d

A. R. WILLAR

● *The copy on page 28, column 2, Ma should read: "Drill a hole about one-t deep into one end of the rod and tap it the thread on the bolt." You do not dri ¼-inch hole for a ¼ x 28 thread. It sho be a .213-inch (No. 3 drill) hole to threaded ¼ x 28.*—ED.

INDIAN-UP

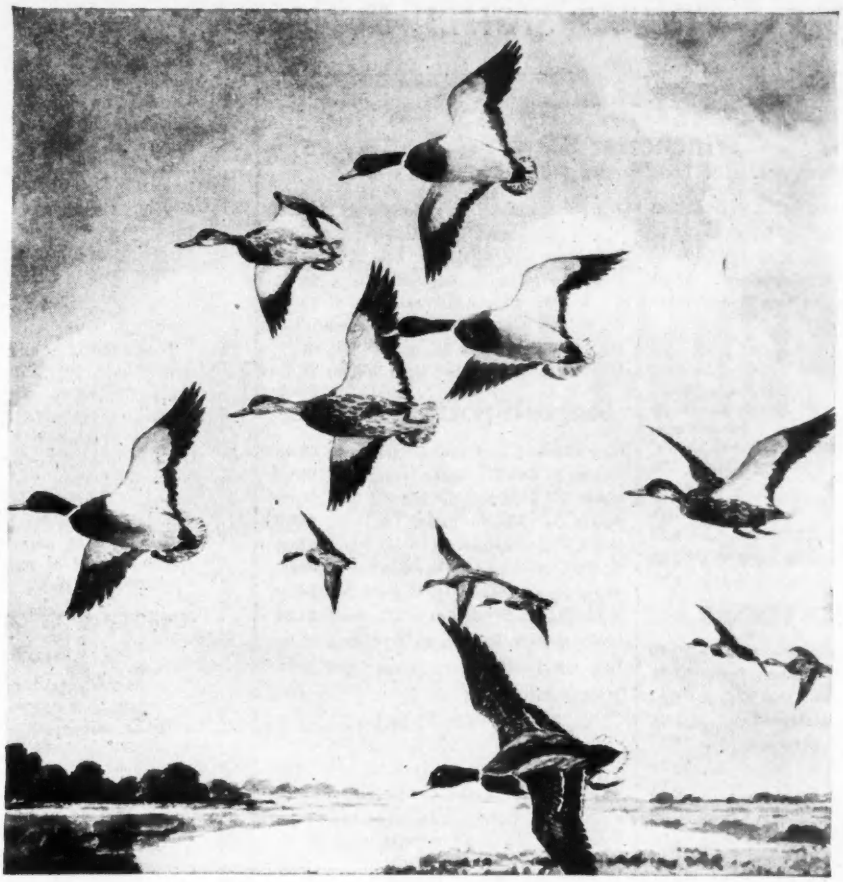
Riverton, Oregon

Editor:

I enjoyed William Wakeland's "A Chee ako's Observations". It is not bad hunti technique to 'Indian-up' on game. In fac often makes such a caliber as the .30-30 eq to the .30-'06 at longer ranges.

The illustration of the brown bear kil

(Continued on page 6)



"A FLOCK OF MALLARDS"

by Hans Kleiber

A telltale rustle in the bulrushes. A flurry of wings. For an instant the water is churned frothy white. Then into the cold November sky they rise, circling, swinging into formation. The hunters are ready. The mallards are flying!

That's a picture to warm the heart of any hunter. But today it's none too common. In many areas game stocks are steadily decreasing. It's up to sportsmen everywhere to take immediate action. Do your part to preserve America's wildlife. Limit your bag. Join and support local and national organizations for game restoration and conservation. E. I. du Pont de Nemours & Co. (Inc.), Explosives Department, Wilmington 98, Delaware.

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Write today for information on how to start a rifle club in your own community . . . how to teach your group to have more fun shooting a rifle . . . how they can win Ranger Shooting Emblems. No obligation. Address—Sportsmen's Service Bureau—Department A-4, Sporting Arms & Ammunition Manufacturers Institute, 343 Lexington Ave., New York 16, N. Y.

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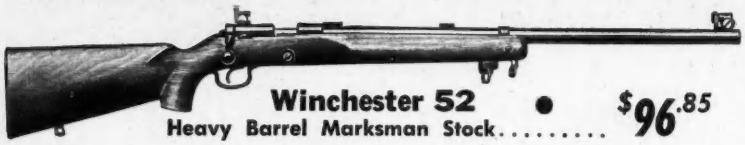

Winchester 52 • $96.85
Heavy Barrel Marksman Stock.....

Win. M/75 Target complete $57.00
Win. 52 Sporter, $131.95—75 Sporter 49.40
Win. model 69 Sporter, open sights 23.95
Win. M/69 Match Rifle, Complete .. 37.20
Win. Model 12, Vent. Rib Trap Gun..190.00

Our stock of ammunition is always fresh. Rem. Kleanbore, Peters Target, Western Expert, Winchester Leader. Super-Match, TargetMaster, Peters Dewar. Palma, Stayn-less EZXS. Special price to clubs. ASK FOR FOLDER.

Gopher Arm Cuff $2.50, & Half Sling 1.65
1¼" Regulation sling, $2.35. One in. 2.00
Winchester Super Grade Fore-end Tips 1.15
Win. Super Grade Grip Cap & Screw 1.15

LOADING TOOLS

Belding & Mull Straight Line mod. 28 19.50
Lyman Senior, $37.50. Lyman Junior 22.50
Lyman Ideal #310 Hand Tool, Comp. 9.50
Ideal Bullet Moulds (Most calibers).. 6.00
Ideal Lubricator & Resizer, Complete 12.50
Ideal Powder Measure 10.00
Saeco Measure 12.50
Redding Powder Scale $11.95. Pacific 8.50
All makes & sizes of primers in stock 7.00
Dupont and Hercules powders in stock.

Win. 52 Standard, Marksman Stock..$86.35
Win. M/70 Target, .257 Roberts....166.95
Remington M37 AX Target Rifle 99.45
Rem. 513T, $48.05. Rem. 521T..... 36.95
S & W K22, K32, K38 Masterpiece.. 65.00
S & W M & P ROUND BUTT now available
High Standard HDM, 4½ or 6¾" bbl. 51.17
New High Standard H-B Light Weight 42.00

Scopes-Spotting Scopes

New Litschert Spot Shot Target Scope 49.50
Lyman Jr. $62.50. Super-Target Spot 90.00
Unertl 1" $58.00. 1¼" $78.00. 1½" 90.00
Fecker 1¼" $75.00. Fecker 1⅝" 98.50
Unertl Falcon $48.00. Unertl 4x Hawk 52.00
Unertl Condor 6x $66. Varmint Master 75.00
Argus Spot'g Scope $74.50. Mark 245 84.50
Mark 218 22.50. Saturn 25.00. Moss. 22.30
Unertl Straight Spotter, 80.00. Rt.Ang. 96.00
Freeland Bipod DeLuxe Scope Stand 16.50
Western Bullets: 100 gr. .257 Roberts 4.00
30-30, 170 gr. $4.60. 9MM Luger, $3.14. 30 Mauser $2.50. 25-20, 86 gr. $2.46. 7 MM Mauser 4.96
Primed Cases: .218 Bee $6.11. 22-3000 6.11
.30 Luger, $4.60. 30 Mauser $4.60. 32 Win. Special $7.20. 9 MM Luger $4.60. 45 ACP 4.60

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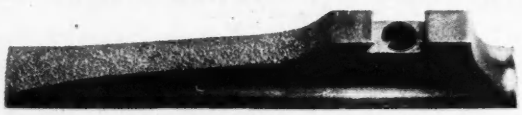

It is hand stippled, has graceful lines that will enhance any gun. Price with attaching screw, post-paid $4.50

If You Are Having
TROUBLE WITH YOUR RIFLE GROUPING

Try our new barrel band. Flexible, adjustable, holds barrel down uniformly without variation. Give barrel measurements in 32nds or thousandths. Price, Prepaid $1.60

We have a complete stock of B & L Binoculars, Wollensack Binoculars, Gun Cases, Cleaning Accessories, Gun Cases, recoil pads, Sling Swivels, Lyman, Redfield, Goss, Marble and Vaver Sights. Buehler, Echo, Redfield, Pachmayr, King-Pike, Stith & G & H Mounts. All Weaver products in stock. Everything for the Shooter.

Ask for Our New List

GOPHER SHOOTER'S SUPPLY

SPORTING GOODS - - - WHOLESALE & RETAIL
FARIBAULT, MINNESOTA

(Continued from page 4)

with a .30-'06 at 275 yards with 180-grain slugs is a case in point. The bullet in standard loading has a remaining energy of 1445 pounds at 300 yards. If the hunter had Indianed-up to 100 yards he could have used the .30-30, which delivers 1405 pounds at this range with the 170-grain bullet.

I can think of a lot of rifles I would rather have for bear than a .30-30, but there is no denying the fact that the long-range artist using the .30-'06, is dishing out .30-30 performance to the game he shoots.

FRANCIS E. SELL
Elida, New Mexico

Editor:

Just finished reading "A Cheechako's Observations" by William Wakeland in the April RIFLEMAN. Get it across to this here Cheechako that there's at least one old hunter down here in New Mexico who admires... Mr. Wakeland's surmise that shots placed right, from guns that can be shot accurate by the men behind them, are worth more than misplaced shots from the biggest magnums. It is shared by many old hunters throughout the Southwest as well as up in Alaska.

WALTER RODGERS

CHIPPED KEYSTONE

Spokane, Wash.

Editor:

I want to take this opportunity to congratulate you on your recent fine editorial entitled "Chipped Keystone". Today we hear all kinds of statements made lauding the merits of various isms. We also hear a great deal of superficial debate concerning these isms or new deal ideas. Seldom do we hear or see in print a reminder of the basic fundamental principles of American government such as you have given. In 'splitting hairs' over a good many unimportant issues, we have in too many instances forgotten those basic principles on which America was founded.

I sincerely hope that all RIFLEMAN readers will through the reading of your good editorial rededicate themselves to a personal crusade for true Americanism.

EVERETT H. THOMAS
Greenwood, Ark.

Editor:

I wish to commend you for your editorial in the April issue. It is a rotten shame that the men we have been electing to office seem to have no initiative, no foresight, no ability to carry on with democratic ideals.

PAUL MANSFIELD

LAZY HUNTING

White Salmon, Wash.

Editor:

"Too Lazy to Hunt?" by Walter Rodger in the March RIFLEMAN is excellent. So good that the only thing I can find wrong with it is that it isn't long enough. Every hunter, or would-be hunter, could read this article several times with profit.

EDWARD SISSON

DEATH IN COMMITTEE

State Capitol
Sacramento, Calif.

Editor:

I had considered stopping my subscription to the National Rifle Association magazine but after seeing the excellent work done by the Association in regard to the stopping o

(Continued on page 8)

REEVES and COLT WIN AGAIN AT NAT'L MID-WINTERS

Famous Detroit Shooter Wins National Mid-Winter Pistol Matches —Uses Colts all the Way

Harry Reeves of the Detroit Police Department once again proved his ability to hold them in the black by walking off with top honors at the Tampa, Florida National Mid-Winter Pistol Matches. In running up the exceptionally high aggregate of 2606, Sergeant Reeves used his new Colt Match Target Woodsman, Colt Officers Model .38 Revolver and Colt Government Model .45 Automatic—Colts all the way!

In the .22 caliber matches, Sergeant Reeves shot his new Colt Match Target Woodsman, recently developed by Colt and especially designed to meet the critical standards of championship target shooters. It is an exceptionally popular gun for general use for it combines championship accuracy with ruggedness of construction.

Look at these fine features of the New Match Target Woodsman and consider how proud *you'd* be to own one!

NEW MATCH TARGET WOODSMAN

Caliber .22
Automatic Pistol

FEATURES

Heavy Barrel • Longer Grip • Perfect Balance
Improved Magazine • Automatic Slide Stop
Adjustable, Click-type Coltmaster Sight
Heavier Slide • Smoother Action
Plus many other improvements in design, action and safety.

Write for free literature illustrating the complete line of Colt Revolvers and Automatic Pistols.

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COLT'S MANUFACTURING CO. • HARTFORD, CONN.

Col. Whelen
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Use Our Time-Payment Plan

ONE-FOURTH WITH ORDER, balance in 5 monthly payments.
PROMPT DELIVERY. Minimum Payments of Ten Dollars—
Nominal Carrying Charge

RIFLES & SHOTGUNS

Remington Model 721 Rifle, .30-06 caliber	$ 79.95
Marlin Model 336A Rifle, .30/.30 or .32 Special Caliber	72.55
Marlin Model 336 Carbine, .30/.30 or .32 Special Caliber	61.45
Fabrique Nationale De Luxe Mauser Sporting Rifle, 30-06 or .270 caliber, peep sight	186.80
Same without rear sight	174.00
Stevens Model 325, .30/.30 caliber, bolt action Carbine	42.95
Stevens .22/410 over and under gun	32.25
Remington Model 31TC Trap Gun, 12 gauge, with Ventilated Rib	178.50
Ithaca Model 37 Shotgun 12, 16 or 20 gauge. Plain Barrel	83.50
Winchester Model 21 Double Barrel Shotgun 12 gauge skeet grade	276.50
L. C. Smith double barrel Shotgun, field grade	98.95
Ideal grade	137.15
Remington Junior Special Model 521 .22 Caliber Target Rifle with Lyman sights	36.95
Remington Model 513 TR Target Rifle complete with Redfield Sights and Govt. Type sling	57.00
Same without sights	45.05
Remington Model 37 Target Rifle with Redfield sights	118.60
Same without sights	99.45
Winchester Model 75 Target Rifle complete with Redfield Sights and Govt. Type Sling	57.00
Model 75, as above, less sights	41.95
Winchester Model 52 Target Rifle, Standard weight without sights	86.35
Model 52 Standard weight with Redfield sights	111.95
Model 52 HB without sights	96.85
Model 52 HB with Lyman sights	119.50
Model 52 HB with Vaver Sights	127.25
Model 52 HB with Redfield Olympic sights	131.25
Belgian Browning Automatic Shotgun Light 12 without Rib	124.50
Extra for Raised Matted Rib	12.50

HUNTING SCOPES

Unertl Hawk, 4 power	52.00
Weaver K2.5, 2½ power	37.50
Weaver K4, 4 power	45.00
Weaver K6, 6 power	48.50
Weaver J2.5, 2½ power	22.50
Weaver J4, 4 power	27.50
Weaver G4, 4 power	9.75
Weaver G6, 6 power	12.50
Lyman Alaskan 2½ power	60.00
Lyman Challenger, 4 power	85.00

Stith, King-Pike and Redfield Mounts available

SPOTTING SCOPES

Bausch & Lomb Prismatic Spotting Scope 60 mm Objective	95.00
Argus Super Spotting Scope	74.50
Freeland All-Angle Stand	11.50
Mossberg Spotshot	24.90
Mossberg Stand	11.90

PISTOLS & REVOLVERS

High Standard Model H-B .22 Cal. 4½ or 6¾" barrel	42.00
High Standard .22 Caliber Automatic Model HD-M, 4½ & 6¾ inch Barrel, Plain Grip	51.17
With Thumb Rest Grip	56.17
High Standard Model G .380 Caliber Automatic 5 inch Barrel	55.00
Colt Official Police Revolver .22 cal. or .38 cal.	65.00
Colt Police Positive Special Revolver, .38 Special, .38 Police Positive or .32 Police Positive	65.00
Colt Detective Special Revolver .38 Special .38 Police Positive or .32 Police Positive caliber	65.00
Colt Officers Model Target Revolver, .38 Special or .22 Cal.	75.00
Colt Super .38 Automatic Pistol	65.00
Colt Government Model .45 Automatic Pistol	65.00
Colt .22 Conversion Unit for .45 and Super .38 Automatics	40.00
Colt Sport Model Woodsman Pistol	60.00
Colt Target Model Woodsman Pistol	70.00
Colt Match Target Woodsman Pistol	85.00
Smith & Wesson K-22 Revolver	65.00
Smith & Wesson K-38 Revolver	65.00

TARGET SCOPES

Unertl Varmint Scope, 6, 8 & 10X	75.00
Unertl Target Scope, 1 inch objective, 8 & 10 power	58.00
Unertl Target Scope, 1½ inch objective, 10, 14 and 20 power	90.00
Unertl Target Scope, 2 inch objective, 10, 15 and 20 power	125.00
Litschert Spot Shot Target Scope, 1¼-inch Objective Lens, 10 or 12 power with Dust Caps and Recoil Spring	49.95
Fecker Target Scope, 1⅝ inch objective, 10, 16, 20 & 24 power	98.50
Fecker "Woodchucker" Scope, 1.2 inch objective 4.5, 5.5 & 7 power	62.50

BINOCULARS

(Prices shown include tax)

Bausch & Lomb Zephyr Light Hard Coated Lens	
6 x 30	186.00
7 x 35	186.00
8 x 30	204.00
9 x 35	204.00
7 x 50 (not Zephyr Light)	210.00
Kollmorgen "De Luxe" Monette Monocular	49.50
Suède Case for above	1.75
Ray Ban Shooting Glasses	15.00

NOW ACCEPTING ORDERS FOR FUTURE DELIVERY ON:

Winchester M/70 Rifle, Std. Grade, open rear sight. .22 Hornet, .250 Savage, .270, .30-06, 7mm, .257 Roberts, .375 and .300 Magnum, .220 Swift	109.50
Same, Lyman receiver sight	123.25
Super Grade, open rear sight	162.50
Same, Lyman receiver sight	176.25
Remington M/721 Rifle, .270 & .300 Magnum open rear sight	79.95
Remington M/722, .300 Savage & .257 Roberts	74.95
Stevens Model 322 Bolt Action Rifle, .22 Hornet caliber	42.95
Savage M/99EG Rifle, open rear sight, .300 Savage & .250-3000	96.45
Winchester M/52 Sporting Rifle with Lyman Receiver Sight	148.50
Remington Sportsman—'48 & M/11-'48 Autoloading Shotgun, 12, 16 & 20 gauge	99.95
Same with ventilated rib	119.95
Sportsman Skeet Grade vent. rib	124.24

827 14th ST. N.W. **PARKER-WHELEN CO., INC.** WASH. 5, D. C.
Dept. R

(Continued from page 6)

California Assembly Bill No. 1235 and Assembly Bill No. 306, I am herewith enclosing my subscription fee.

This was one of the best demonstrations that I have ever seen on the part of the citizens of California in stopping an undesirable bill. The members of the committee to which this bill was referred, and also the author of the bill, were really swamped with letters condemning the two bills. I feel sure that the success achieved was due to the legislative efforts of the National Rifle Association. The author of the bill has notified all of his colleagues that he is allowing the two bills to die in Committee.

VERNE W. HOFFMAN
Member of Assembly

RELOADS

Rawlins, Wyoming

Editor:

I want to express my appreciation for the very fine articles on reloading tools and data which have been in the last three issues of the RIFLEMAN. Without a doubt this is the best source of up-to-the-minute facts I know of.

DUKE PARRISH

● *The loads and figures for .30-'06 cartridges in April, and for .38 and .45 pistol ammo this month (see page 32), will be followed with reloading data on the 8-mm Mauser, .257 Roberts, .270 and other cartridges.*—ED.

BENCH-REST SHOOTING

Du Bois, Pennsylvania

Editor:

Judging by the way bench-rest shooters from all parts of the country attended the first competitive bench-rest rifle match at Du Bois over Memorial Day weekend last year, there should have been organized bench-rest shoots like it many years ago to afford all gun nuts the chance to unwind their ideas and put the proof of it on target.

At a convention of bench-rest shooters at Johnstown, N. Y., last year, the newly organized Bench Rest Shooters Association decided to conduct a series of matches every year with the first match for 1949 to be held at Du Bois, Penna., over the weekend of May 28, 29, 30. The match is to be sponsored by the Du Bois Rifle and Pistol Club. Upon receipt of sanction from the Association, the Du Bois club members immediately accelerated their efforts and in a period of three months have constructed a club house, indoor rifle range and statistical offices that will house visiting shooters and serve as a gathering place for the gang at night.

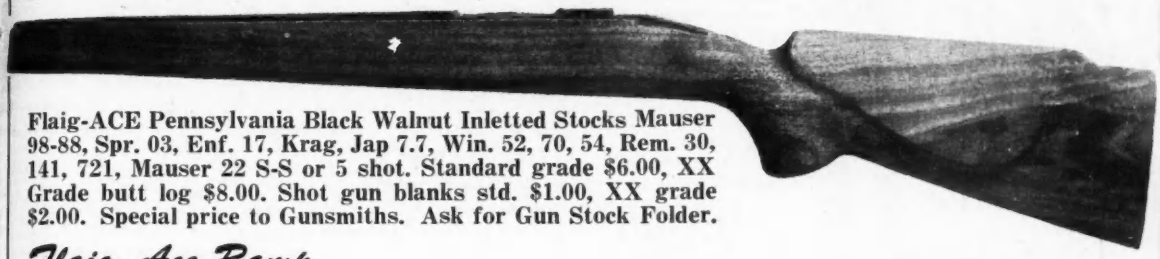
The first day's program of events includes ten 5-shot matches at 100 yards with any sights, the second day's events ten 5-shot matches at 200 yards with any sights, and the third day's events five 5-shot matches at 300 meters. Prize money will be distributed for the winners of each match.

JOHN J. BENYON, Secretary
Du Bois Rifle and Pistol Club, Inc.

● *For shooters interested in the Bench Rest Shooters' Association matches in Du Bois, a program of events may be obtained by writing to the secretary of the Du Bois Rifle Club.*—ED.

Flaig-ACE

PENNSYLVANIA BLACK WALNUT INLETTED STOCKS



Flaig-ACE Pennsylvania Black Walnut Inletted Stocks Mauser 98-88, Spr. 03, Enf. 17, Krag, Jap 7.7, Win. 52, 70, 54, Rem. 30, 141, 721, Mauser 22 S-S or 5 shot. Standard grade $6.00, XX Grade butt log $8.00. Shot gun blanks std. $1.00, XX grade $2.00. Special price to Gunsmiths. Ask for Gun Stock Folder.

Flaig-Ace Ramp

complete g.b. or ivory
Special price, Dealers Lots. **$6.00**

NEW F-N actions with 30-06, 257, 270 Chrome Moly 24" sporter barrel fitted, white not blued...$ 69.00
F-N actions with 220 Swift barrel or 22-250 cal. sporter or med. heavy, box shortened, white 25 in. 74.00
F-N actions, late style 45.00
Special price in lots.
F-N Bolts stripped new low scope 12.50
F-N complete bolts new " " 22.00
All parts for F-N actions in stock.
Spr. Actions complete $27.50 low numbers—Same with new 4 gr. Barrel fitted 42.50
Win. 75 sporters Lyman 57R..... 55.50
Win. 52 sporters Lyman 57R..... 148.50
Win. 94, 25-35 cal. 62.45
37 Ithaca's 16-12 ga, 20 ga 83.50
HD Hi-Standard 4½-6.3-4" 51.00
Ithaca 37S 20, 16 and 12 ga V Rib 160.00
Model 21 WIN Skeet 12-28" B-T S-T Select Ejec. new, ea. 252.50
M-12 20 ga. Cutts Skeet-Gun..... 132.00
Sav. auto 22 cal Model #6..... 30.25
720 Sav. auto 12 ga. 92.75
745 Sav. auto 12 ga 98.85
Rem. 1948 Sportsman Model 12 ga 99.00
Rem. 81 auto 35 cal rifles 129.50
Lugers, 3¾" issue, 9mm, good to v.g. $30.00, $35.00—P-38 exc. ... 25.00
69 Win T. 85 A.R. sights 27.00
Colts 22-38-45 Units 35.00
Win 62 22-cal Short new 39.75
75 Win Target 22 cal, new 54.50
45 Colt auto Com. 38 Colt Super... 65.00
Colt Woodsman 22 cal 6" Target... 75.00
Colt O.M.T., 22-38 cal 75.00
S&W K-22 or K-38 ..... 65.00
38 S&W M&P 2.4.5.6" 56.50
22 cal HD Hi-Standard 4½, 6¾"... 51.00
Ideal Powder Measure No. 55 ... 10.00
Colt 38 Super barrels, new 7.00
30-40 Krag paper cart., per 100 ... 12.50

AMMO. ON HAND (priced per box)

30.06 150-180 gr. 270 Win 130-150 gr. 7.62 Russ. 7mm Mauser, 8mm Mauser, 8mm Mannlicher, 30-40 Krag, 180-220 gr.....Box $3.25
257 Robt. 87, 100, 117 gr. 300 Sav. 150-180 gr. 45-70 S.P. .....Box $2.90
22 Hornet, 30 Mauser (pistol), 33 Win., 30 Luger, 9mm Luger, .348 Win., 44-40 Russian, 44 S&W Spec. .....Box $3.50
300 H&H, 44-40, 38-40, 45 auto Rim. Box $4.00
30-30 Win, 32 Spec., 30 Rem, 32 Rem, 38-55, 220 Swift, 32 S&W Long, 303 Sav, 32 Colt, New Police, Box $2.40
22 H.P. Sav. 219 Zipper, 25-35, 25 Rem., all auto, 32-40 S.P. .....Box $2.25
351 auto, 32 Win S.L. ....Box $4.50

Primers 1½ 6½ 9½ Rem Western 8½, M Peters 12-20, #115 Win.... 6.50
B&M one piece cleaning rods 22 & 30 cal. "Best Made." 3.00

FECKER - LYMAN - UNERTL TARGET SCOPES, MOST SIZES, TYPES ON HAND.

All sizes and magnification, in stock prompt delivery: .....LIST PRICE
Unertl Falcon Scope 2 3-4 X 48.00
Unertl Hawk 4X 52.00
Unertl Condor 6X coated 66.00
Lyman 4X Challenger Scope 85.00
Leupold rifle scopes, 2¼X 57.50
Lyman Alaskan coated 60.00
Lyman Super Target 15X, 30X.... 90.00

Sun-Burst P.G. Cap with blued screw.
Each 60¢ — Dozen $4.80

Redfield Jr. Mts., $12.50, $14.50, 16.50
Texan scopes coated, 2½ Ex..... 50.00
Weaver K4 $45.00; K2.5 ..... 37.50
Weaver G4 $9.75; J2.5 ..... 22.50
Weaver K-6 $48.50; G-6 ..... 12.50
Dockendorff Gold Cross-Wire ... 5.75
Buehler Safeties $6.00; Mounts... 15.00
Echo mts. $17.50; Pachmayr mts. 20.00
Lyman ramp sights, all sizes..... 6.25
Lyman 48 sights, most numbers available $12.50- 14.00
Tru-Line Jr. Loading tools 22.00
B&M Reloading Tools all calibers 19.50
B&M Visible Powder Measure... 12.50
Redfield 102-70's most no.'s $6.50 9.50
Krag Barrels made from Enf 24" good $12.00—6 or more.....each 10.50
Mauser 98 firing pins new 3.00
v.g. issue barrels, 24" 5.00
Complete 98 M. bolts v.g..... 12.50
Mauser 98 stripped bolts v.g..... 5.00
Enfield trigger guard stripped ... 1.50
Enfield extractors new 1.50
Colt 45 mags, new $1.50; used ... 1.00
Colt 45 barrels new 4.00
Arched Housings. New 2.00
S&W barrels 17 M. New 6.00
Colt 45 ammo late per 100 ..... 4.00
32 R.F. $2.00 100; 32 R.F. Long 100 2.20

SPECIAL

30.06 ammo 150 gr. M.C. late date $6.00-100

CASE LOTS 1500 rounds $78.75

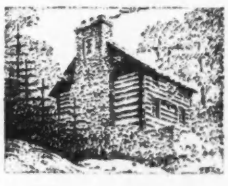
JOHNSON-MAKE

Chrome moly barrels 22" featherwgt only Enfield 30.06 partially chambered. Threaded for Enfield $12.00. Lots of 6 or more $10.00 each. Will fully chamber $5.00 additional.

Flaig Ace Trigger Shoe, Mauser 98, F.N. or Military with wrench 2.00

25-20 S.P. $2.70 box; 32-20 Lead $3.00 box. All Modern loads ammo. in stock.
257 Robts. Primed cases.....$7.50-100
DuPont 3031, 4227, 4350, 4064, 4198 1.80
Speer bullets 22 cal, 45, 50, 55 ... 2.80
Sierra bullets 22 cal, 50, 55 gr 2.80
Speer 25 cal 60, 87, 120 gr, 130 gr 3.80
Speer bullets 100 gr. SP 270 Cal... 4.25
Speer bullets 30 cal. 110 gr. 4.25
150 gr, 180 gr 4.50
Spr. trigger guards milled new ... 3.00
SPR. Snipers bolt stripped new 6.50
SPR. Triggers new $1; Extractors 1.00
Spr. milled followers, new 1.00
Mauser 98 issue actions new 30.06 barrels or 300 Sav. cal. 4 gr 50.00
New List Free

Jobbing:—Unertl, Texan, Lyman, Echo, Redfield, Leupold, Weaver, King, Buehler, G&H, Marble, Dockendorff Safes $1.00—Extractors $3.00



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MILLVALE
PENNSYLVANIA

YOUR CHOICE of .22 Cal. AUTOMATICS

15-shot. Tubular feed.

"Mossberg's Pride"

A de luxe automatic at a down-to-earth price.

Model #151M

$30.90

$31.70 west of Rockies

Scope shown on each rifle is Mossberg 4-power Model 4M4. Mount slides into dovetail grooves in rifle's receiver. Only $9.35

NEW!

Carbine style, 7-shot clip type with

HINGED FORE-END

A wonderful little rifle for hunting and plinking.

37" long. Weight only 5 lbs.

Model #152

$26.95

$27.80 west of Rockies

Fore-end forms handy 5" grip

SEE THEM AT YOUR DEALER'S

FREE...

Mossberg's complete catalog. Send for it today.

No sales at factory

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Incidentally . . .

One of the fascinating things about the NRA is the amount of service it can give its members for four bucks a year. We checked it once and learned that if each of our 300,000 members asked for all of the Association's services . . . well, we'd be bankrupt inside a couple of weeks. Fortunately, no such catastrophe is in sight. Except for one common bond . . . an interest in guns of some sort . . . the people who make up today's NRA are as unlike in their interests as any other random lot of Americans. For every shooter who likes to play around with reloading tools and empty cartridge cases, there is one to balance him who wouldn't be caught dead with such a combination. No reloading for him. He wants to work up to a Master classification with that small-bore rifle of his. Strictly a tournament shooter, that one. And there's the old gun collecter. If it shoots he wants nothing to do with it . . . and who wants to reload for a muzzle-loader? The cartridge collector, of course, associates with none of the above. He's the guy who shudders every time some cold-blooded individual shoots a few rounds with his old Colt revolver and the paper cartridges Granddad left him. It's the cartridges he's worried about . . . not to shoot, but to 'collect.'

With that kind of variety entering into the NRA's membership, it is obvious why the RIFLEMAN has to cater to so many different tastes . . . and just as obvious why all of our members do not take advantage of all of the Association's services. It's a good thing, too. If every NRA member was an active competitive shooter, for instance, we would need something like 150 full-time employees for classification alone.

☆ ☆ ☆

Thinking along those lines, we wandered into the NRA classification section the other day, to find out exactly how many people go in for tournament shooting. Mrs. Palmer, who presides over a 27-foot rack of cards, something called a National posting machine and four assistants, gave us the figures. There are 21,000 classifications now in force . . . and, incidentally, roughly five hundred registered tournaments each year.

For the information of RIFLEMAN readers who are not tournament shooters, this classification business is the shooting man's equivalent of a handicap system. Target punchers, rifle and pistol, are divided into four classes . . . ranging from Marksman, which is for the relative newcomer to the target game, through Sharpshooter, Expert and Master. The members of the Master class, incidentally, are the elite of the target shooting world. Only about one in twenty ever piles up the average necessary to get into that fast company.

So far, classification sounds simple, doesn't it? Actually, it is one of the Association's major headaches. To start with, we'd guess that the average tournament shooter attends ten registered tournaments each season. If he's a rifle shooter, he probably fires in a half-dozen matches per tournament. For the pistoleer, there are usually four, each with .22, center-fire and .45-caliber handguns. At a guess, say 80 or 90 matches per season. And, to keep them up-to-date, every one of those 21,000 classifications must be refigured after posting of each group of eight matches.

☆ ☆ ☆

And by the way . . . if anyone wants to know why the NRA gets a twenty-five cent registration fee from competitors in class A tournaments (fifty cents for class B's) don't blame it on the classification system. It ain't so. Those two-bitses are needed all right, but not for classification costs. In order to maintain uniform conditions among registered tournaments we send 'official referees' to each one. Sending that referee costs the NRA, on an average, $22 per tournament . . . more than we get in registration fees.

As we said before, it's a mighty good thing that all of our members don't ask for all of the Association's services. We wouldn't last through next week.—J. S.

COVER

Richard Ballinger, member of George Washington University's rifle team, is pictured with the late Lt. Col. Eugene S. Hicker on this month's Rifleman cover. Taken on the range of the Arlington (Va.) Rifle and Pistol Club in March 1948, before Hicker's fatal flight into northeastern Canada, the picture was made at 1/50 second at f6.3 on Ansco Color Film with a Rolleiflex camera by NRA photographer Richard L. Reish, whose pictures of night shooting in Middlefield, Connecticut, appear on pages 15, 16 and 17.

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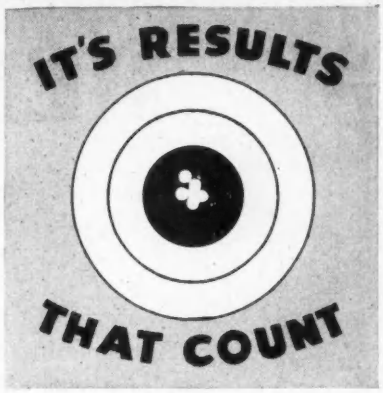

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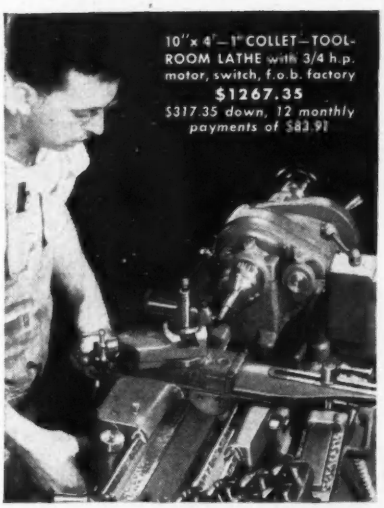

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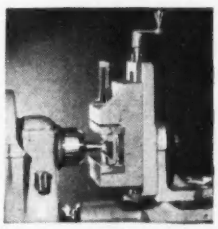

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MEMORIAL

"As He died to make men holy
Let us die to make men free."

—The Battle Hymn of the Republic.

Snow-white against the green rolling hills of Arlington the headstones mark the resting places of men of three wars who died to make men free. Not far away, in Alexandria, lies another—marking the Unknown Soldier of the American Revolution. All over America, all over the world, there are others. Some gleam white; some are gray, worn with time.

The park facing the White House memorializes the Frenchman, Lafayette. In the park stands a statue to the Pole, Pulaski; another for the German, Von Steuben.

"Let us die to make men free."

Why are men willing to die for freedom in war but unwilling to pay the smaller price to keep their freedom in peace? Why do they march, gun on shoulder, to battle but fail to march, pen in hand, to the polls? Why do they fight through the flame and steel of the foreigners' guns and bombs but cringe before the anticipated blast of the embattled politician in their home town?

As we honor the Frenchman Lafayette, the Pole Pulaski, the German Von Steuben, do we forget that their countrymen, too, have often died for freedom, *and as often seen it snatched from them by enemies from within?*

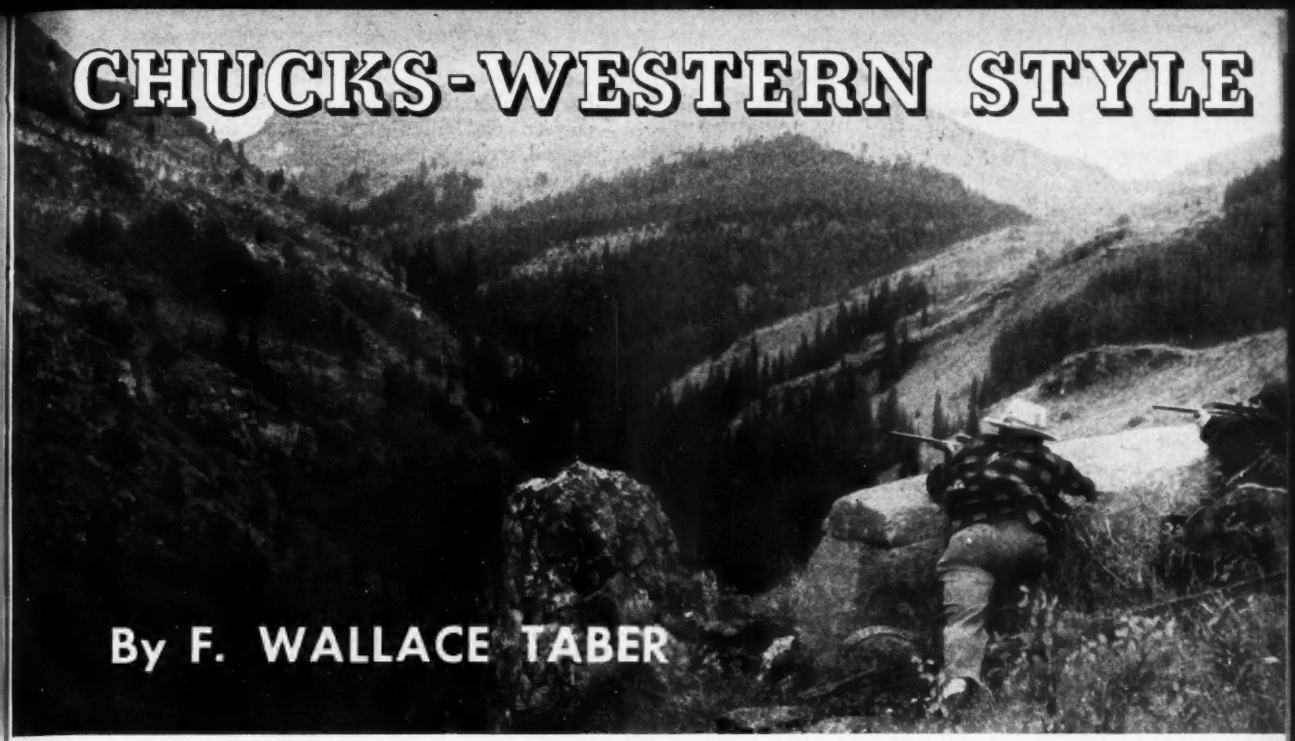
Freedom lost must be again won by the courage of those willing to die. Freedom won must be retained by the courage of those willing to live by the ideals for which the others died. Freedom rests not on guns, money or modern plumbing. Its foundation is no stronger than the hearts of the men who would be free. Wars end. The battle for freedom never ends.

It is right to pause on Memorial Day to honor our dead and the families who gave them to the cause of freedom. But, my friend, you cannot pay your *debt* to them with a garland of flowers, a moment of silent prayer, a parade and a firing squad. Look in the mirror into your own eyes. Ask *yourself,* "What am I doing, today, in my town, to hold safe the freedom they held so dear?"

As He *lived* to make men holy
Let us *live* to make men free.

E B Lister

CHUCKS-WESTERN STYLE



By F. WALLACE TABER

This is typical southwestern Colorado chuck-hunting country, where the shots vary from 'close ones' of two and three hundred yards to over a half mile!

DOWN IN the southwest corner of Colorado, in the small city of Durango, a couple of outlaw gun nuts have everyone in town carrying ballistic charts around in their hip pockets. Man for man, there are probably more expert riflemen, rifle builders and reloaders in Durango than any comparable square mile of city on earth.

There the .30-30—the gun that 'made' the West—is a hopeless has-been. While most Durangoans would prefer to die with their boots on, few would be found dead with so plebeian a firearm. Ballistically it is strictly not the berries, they say, and wax enthusiastic over Mausers, Enfields, Springfields, Arisakas and other bolt-action artillery.

Nor is it the orthodox calibers and loads issued by the manufacturers that command attention in even those bolt-operated shooting irons. More often, it is the .300 Magnum or the .30-'06 case blown out straight-sided and necked down to handle a .22, a .25 or a 6.5-mm. slug. And those who fail to speak in the language of developed energy, pent-up pressures, muzzle velocities and trajectories are as out of place as Taft and Hartley at a labor-union meeting.

Any night in the week and all day Sunday the back room of Bill Crawley's sporting-goods store resounds with speculation on a new load or a post-mortem on an old one. Usually, it is SRO; there are only five stools. While the boys get 'het' up over which gun and how many grains of powder and lead they'll use up Rawlins way during the forthcoming antelope season, Bill Crawley usually has the vise padded up and is busy reaming out the chamber of a new Johnson barrel blank or seating a Mauser action in a Bishop stock.

Down the street, in the basement garage of a Pepsi-Cola plant, a similar scene is taking place in the gun-crowded office of one Fred Barnes, who has made gun history by turning a hobby into the commercial manufacture of spitzer bullets. Outside of Fred's cubbyhole office, half-a-dozen presses and other machinery (plus the original hand-operated press on which a million bullets were hand manufactured) are periodically swung back into action even though the shop is long closed for the day. Somebody wants to prove a point and Fred, with a crowd of gun-happy onlookers, molds the copper and lead necessary to satisfy the bunch . . . and hunch.

Chances are strong that the whole congregation will then file out through the prongs of a gigantic set of elk antlers which hang upside down, forming an archway around the office doorway, and noisily make its way down to Crawley's. And chances are good that the bullet just made by Barnes will be fired through a hole in the backroom floor at Crawley's, to further prove a point.

It was at such a meeting that I wandered into Crawley's and became involved in a chuck-shooting argument. Not being much of a handloader, gun remodeler or ballistician I merely made the observation that, for my money, a .220 Swift was as good a woodchuck gun as a guy could want. When I made the statement, it was flavored with visions of Maryland and Pennsylvania groundhogs which had succumbed to my Winchester 70.

"That .220 might be alright out East," said Bill, "but it's not gun enough here in the West."

"You mean that the western marmot takes more killing than his eastern cousin the woodchuck?" I asked.

"Not that so much," said Fred Barnes, who, with Bill, could refute or prove anything and everything even remotely pertaining to shooting, "Not more killing, but more shooting."

"You mean that they are harder to hit?" I asked.

"Definitely," Bill substantiated.

"Why is that?" I led with my chin.

"Because they are farther away," Fred laughed.

BUSTING WESTERN MARMOTS AT DISTANCES OF OVER HALF A MILE SOUNDS IMPOSSIBLE. THE AUTHOR THOUGHT SO TOO, UNTIL HE SAW IT DONE BY FRED BARNES AND HIS FRIEND BILL HAWLEY

We left Durango at daybreak next morning. The previous night's session was terminated prematurely at midnight so that we could get some shut-eye before shoving off. Fred and Bill sat in the front seat and I, together with seven guns carefully cased in scabbards, occupied the rear seat. I was getting the Number One treatment, which is proffered at the drop of a hint to doubting Thomases.

Frankly, I felt among friends with Fred Barnes and Bill Crawley, but definitely among strangers with those guns. The only one with which I had had so much as a speaking acquaintance was a model 70 .220 Swift, and that came along only for allowing I-told-you-so's. The others ran the gamut from a .25-'06 to a gun that Fred affectionately called his 'cutie.'

What Fred was actually saying instead of cutie, was QT. That, he explained later, was short for quick twist. The gun, built around a 1917 Enfield action, had an Ackley barrel chambered to handle the old .250 Gipson-Magnum case, which wasn't too much out of the ordinary. What was sensational to me was that the barrel was rifled with one turn in each six and one-quarter inches as compared to the usual one in ten inches. Even more sensational was the bullet which the Gipson case was necked down to handle. It was a 6.5-mm. slug weighing 200 grains! In order to get that much weight in that diameter bullet, Fred had to stretch the length until it was a full inch and eleven-sixteenths long! To me, it looked like a lead pencil sticking out of a shell case—the kind they sold after the first World War to make stubs go farther.*

"She's loaded with 60 grains of .50-caliber machine-gun powder of a recent type," Fred explained. "Without that particular powder, the cartridge is worthless. And it takes the quick-twist barrel to handle the bullet properly. An ordinary barrel would allow it to keyhole twenty feet from the muzzle."

The way Fred explained it, reloaders around the country had found that the new machine-gun powder burned too slowly for any standard-weight bullet, so he had merely built a heavy bullet to get the maximum performance out of the powder. The largest standard bullet made in 6.5-mm. caliber, he said, weighed 150 grains.

In experimenting, Fred first tried 40 grains of DuPont 4350 on his elongated pencil-holder. That developed only 2000 feet per second . . . strictly minor league!

"Besides," Fred explained, "the pressure was over the moon. But, with the machine-gun powder, we could use 60 grains, push the inch and eleven-sixteenths slug out at 2650 feet per second and still not get into dangerous pressures."

The .25-'06 in which Bill Crawley put his faith and sworn by and at was built around a Mauser action, had an Ackley barrel, a Lefever stick and a Weaver K4 scope with Litschert attachment. Bill used regular .30-'06 cases blown out straight-sided and necked down to fit the .25-caliber slug. The shoulders were sharp as a skinny coed's—about 40 degrees. Using 55 grains of DuPont 4350 behind a 125-grain bullet he got 3285 feet per second.

While the guns used were more than somewhat sensational to a guy who thinks in terms of store-bought artillery, the terrain in which the chucks are shot—they do darned little 'hunting'—is in a world apart. A native of Pennsylvania, Maryland or the East's best chuck-shootin' territory would jump right out of his sweat-soaked britches at sight of it. You gather, no doubt, that it is slightly terrific . . . breath-taking no less.

On the particular summer day that I accompanied Bill and Fred, the weather ran the gamut from brilliant sunshine to light snowfall, including rain, sleet and hail . . . all in the course of the forenoon! Each lasted from fifteen minutes to half an hour, with the sun getting a bit the edge.

For fear you may already be chalking me up as having come off the firing line a bit blasted by all the outlaw guns and loads, let it be known that Durangoans gun their chucks at elevations (I should say altitudes, they're too tall for elevations) running from 11,000 to 14,000 feet! The distances at which they shoot are figured in numbers almost as long, too. Their shots begin at around 450 yards and stretch up to and

* *See "Wildcat Deluxe,"* RIFLEMAN, *February 1949, page 20.*

While Bill Crawley (left) centers the crosshairs on a marmot some 600 yards away on the opposite slope, Fred Barnes holds his scope on the tiny target

This is why even a four or five hundred yard chuck is so difficult to retrieve. The author insisted on trying it and the round trip took 25 minutes

including 1,000 yards! In fact, Fred was chagrined when I saw him and Bill miss four straight shots at a chuck which took the spotting scope to locate. It was fully a thousand yards away. Each shot came within five inches. But that wasn't demonstration enough, so Fred proceeded to knock one flat with the first shot at about 700 yards!

You probably gather by this time that these men are no mere garden-variety riflemen. Funny thing is that a score or more of their proteges, ranging from bus drivers to the local constabulary, shoot with equal accuracy.

The marmots shot are seldom retrieved. One that would take a matter of seconds to shoot would take literally hours to collect. I retrieved one in the record time of 25 minutes! When the deadeyes want a few young chucks for dinner—and they all like them fried southern-chicken style—when they want 'em that bad, they shoot some close-up ones around a couple of hundred yards.

Marmots differ little from woodchucks. A big one will tip the scales at ten pounds and is as tough as saddle leather. The young of the year are three and four pounders and are as tender as cottontails—from which they are difficult to distinguish.

While some of the marmots prefer living in holes in the flat, lush alpine meadows, by far the majority dwell in the rimrock and the boulder fields and rock slides of timberline. They seldom see a human being from one of the boys' hunting escapades to the next. It is little wonder that they sit bolt upright or lie flattened fractions of an inch above a boulder's surface while as many as five shots whizz by. Seldom, however, do the sharpshooters require more than a shot or two.

We parked the car alongside Colorado's famous million-dollar highway which stretches from Durango north to Ouray ... and upwards nearly to heaven. While hundreds of motorists pass daily, not one in a hundred thousand ventures more than a few steps from the highway's edge. Beyond that strip of highway, save for elk, deer and bear hunters, cattlemen and sheepmen, the territory remains virgin.

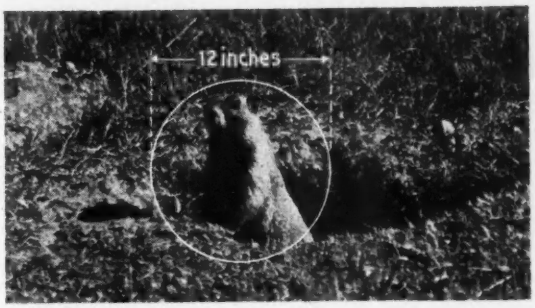
We were about ten miles short of Silverton, once one of the richest square miles on earth but now bordering on a ghost town. Gold, silver, lead and zinc poured from the ground to the resounding clank of miners' picks and the chug of donkey engines. But that was nearly a century ago. Today, 12,000-foot-high Silverton is little more than a tourists' attraction.

From the car, we wandered up beautiful Line creek, mounted a ridge, and strode leisurely along a mountain-sheep trail until we were opposite a large series of granite rimrock outcroppings on the opposite mountainside. And when I say opposite I mean anywhere from a quarter of a mile and up opposite.

Carefully selecting the best site for a full prone position, Fred and Bill propped up a couple of dead logs and laid their gun barrels across them. Making themselves comfortable behind the breastwork, they began to scan the imposing rock slides, outcroppings and boulder fields opposite with their scopes.

"There he is," Fred said. "On that big square boulder below the dead spruce a . . . way down at the end of that quaking aspen grove."

This is Fred Barnes' 'Cutie': a 6.5-mm cartridge with 200-grain bullet almost 1¾ inches long, pushed by 60 grains of machine-gun powder.



Hitting chucks at upwards of 1,000 yards is not as ridiculous as it sounds. Comparable performances have been made many times on the target range—and often with equipment far inferior to that used by Barnes and his associates. Over a decade ago, at Camp Perry, the late David McDougal, USMC, put 15 consecutive bullets into the 12-inch V-ring of the 600-yard target to win the Crowell trophy. The year previous, Marine Gunner H. P. Crowe scored 19 consecutive V's at 1,000 yards in the Wimbledon match. In the ten years which have followed, enormous advances have been made in the production of super-accurate long range equipment. One of the most effective of these highly specialized long-range cartridges is the one developed by Fred Barnes and described in detail in this article.

Whereupon, Fred eased off a shot and the chuck flew in all directions. I would have guessed the distance at 600 yards. The chuck was not visible to the naked eye. But Fred and Bill agreed that the distance was *only* 425 yards!

Bill took his first one with two shots at an agreed distance of 375 yards. It was flattened out against a boulder so that only a third of the top of its head was visible. That was before the second shot. After it, even that third was gone . . . and I mean gone!

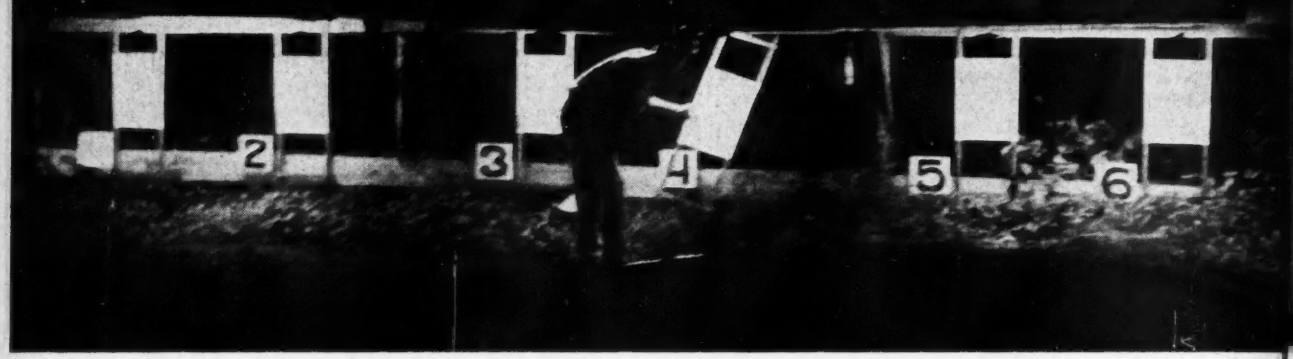
Never once did they shoot a chuck that could be spotted with the naked eye. Once in a while a chuck, spotted first with the glasses, could be made out afterwards without them, but only once in a while. It was the exception, not the rule.

On the mountainside opposite a huge, light-colored granite boulder presented a clear-cut, perpendicular face to us. Early in the shoot, Bill had crumpled a chuck with a single shot from atop its crest. Now, to show me that the point of limitation for the .220 Swift was here reached and exceeded, we put a half dozen slugs into the face of the boulder. The distance was about 650 yards. The bullets spattered dust about a foot to leeward of the point of aim.

"You might find a day when you could group those .220 slugs in the bull at that distance," Fred said, "but usually there's too much wind up these canyons; the drift is too great for long-range accuracy."

Actually, I didn't have to travel out of Durango to find out what Fred had just told me. Anyone of several dozen gun nuts right in town could have told me as much and proceeded to prove the point with a ballistic chart quickly fetched from a hip pocket. Like as not, it would be accompanied by a dozen or so carefully folded, well-creased and well-fingered targets showing a shot-out bullseye and yardage marked at anywhere up to a thousand. ♦ ♦ ♦

NIGHT SHOOTING



UP NEW ENGLAND WAY THEY'RE CELEBRATING THE TENTH ANNIVERSARY OF CONNECTICUT'S POPULAR NIGHT-SHOOTING SMALL-BORE LEAGUES

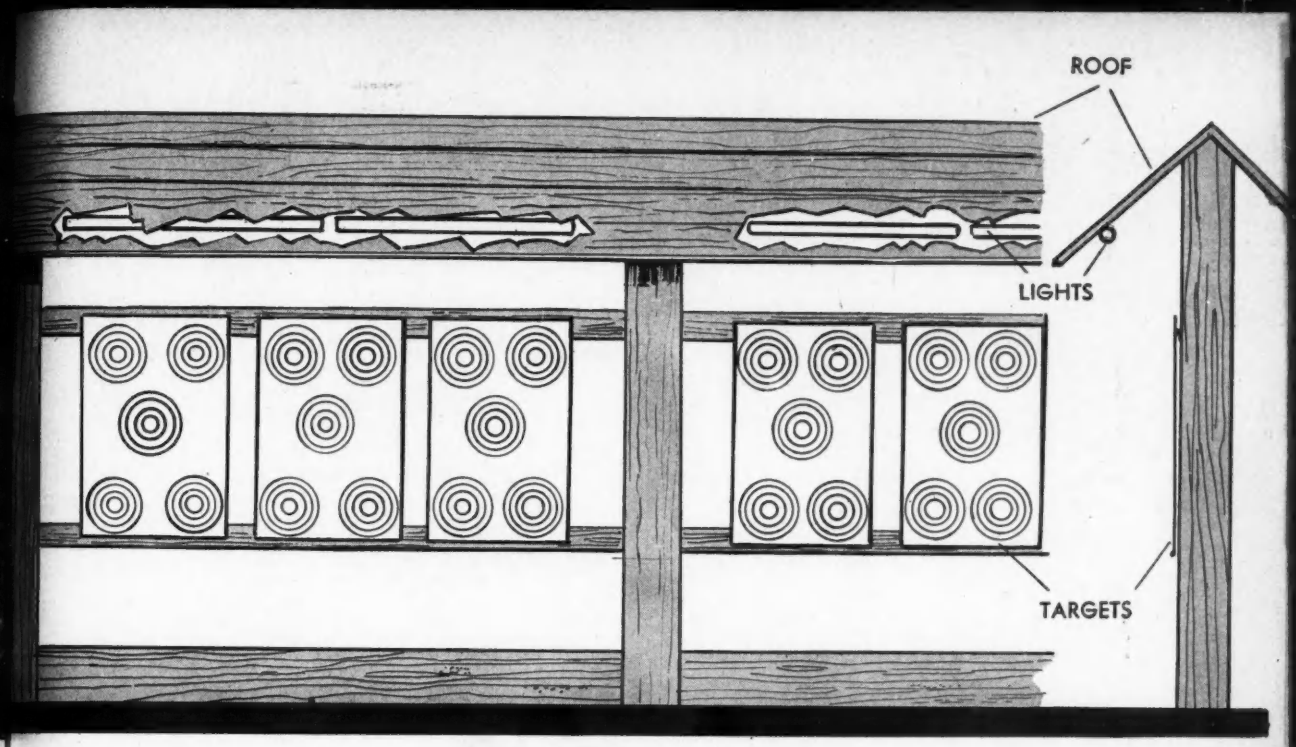
Photographs for THE AMERICAN RIFLEMAN by Richard L. Reish

Teams from several hundred miles radius compete regularly in Middlefield's night-shooting leagues. The lighted range on which they fire was built by the Lyman Gunsight Company as a means of increasing shooting activity

IN THE HEART of New England's industrial area, small-b riflemen have become so numerous and enthusiastic that weekends are no longer adequate for the amount of shoot they want to do. For ten years now, Saturday and Sun get-togethers have been augmented by after-dark league matc on Lyman Gunsight's lighted range at Middlefield, Conne cut. There, five nights a week, small-bore fans from two do New England towns gather for matches fired on the odd 'white' targets which were developed for this after-sundo sport. Despite the night-work demands of busy Connecti factories, almost five hundred shooters show up at least o each week.

Finding ordinary incandescent bulbs unsatisfactory, league organizers turned after a few seasons to 40-watt fluo cent tubes. Both firing lines and targets are shielded by roo structures, and matches are held 'rain or shine'. Sco strangely enough, are higher on the average than over the sa ranges during daylight hours. The advantages of const light conditions may have something to do with the hig averages, but the big talking point for Middlefield's ni matches is absence of wind. On most evenings shooters h only to 'hold 'em center and squeeze 'em off'.

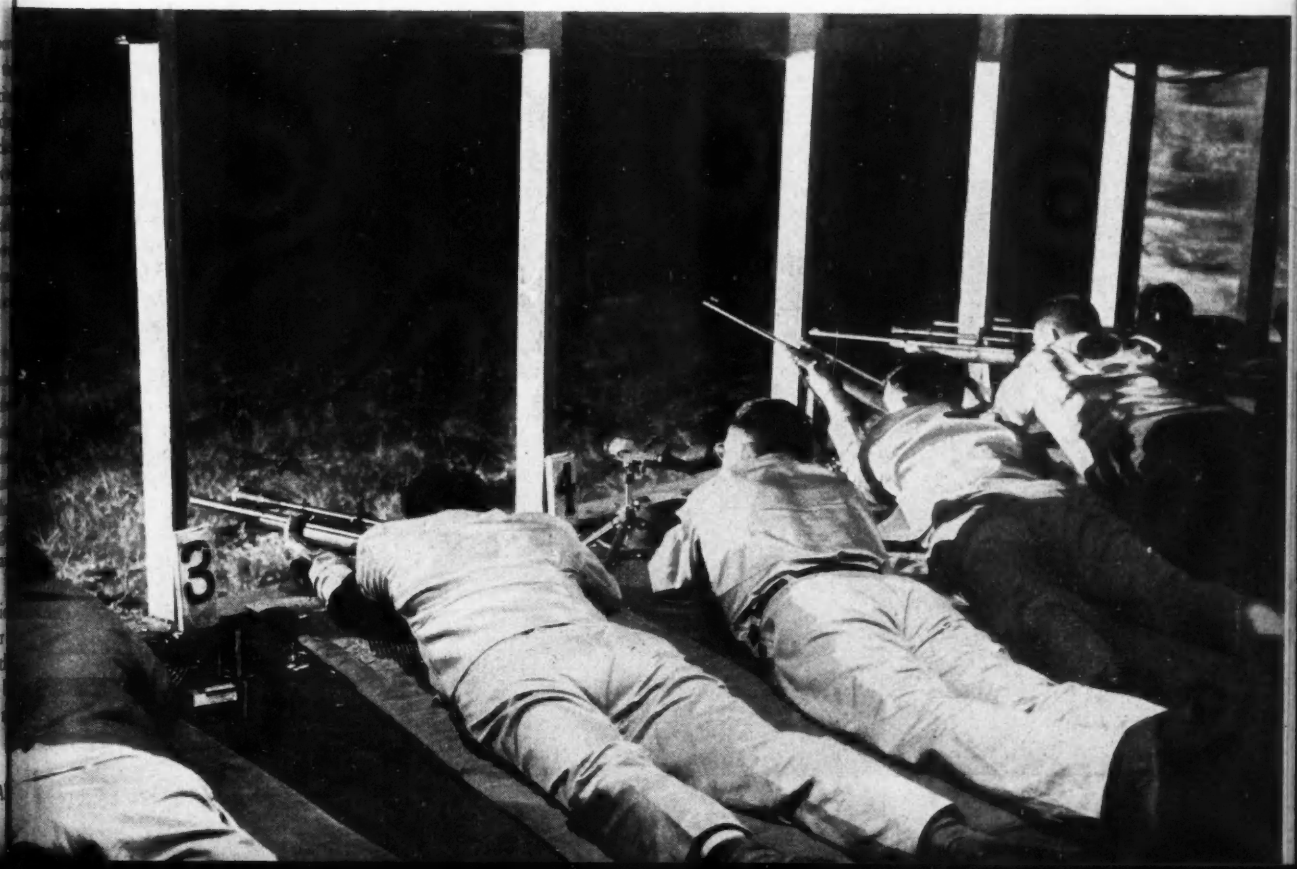
As a solution to the problem of limited hours for recreati in industrial areas, night shooting offers huge dividends for minimum outlay. Installation itself is simple, as shown in t drawing on the right, and the necessary work can be done club members. Operating expenses are negligible. The turns in added hours of shooting fun are enormous.



FRONT VIEW

END VIEW

ing points and target lines on Lyman range are covered, so matches can be fired on 'rain or shine' basis. Both 50- and 100-yard ranges are in opera-on, and most events consist of 40-shot Dewar course. Telescope sights are standard equipment. Drawing (above) shows how the targets are lighted



Targets are scored in this Nissen-hut range house. Standard small-bore targets with black centers were tried for night shooting, but bullet holes could n
be spotted. As a result, special targets with white centers (below) were designed for after-dark use. Center bullseye on target is for sighting th

MOMENTUM, ENERGY, POWER?

What makes a bullet effective in bringing down a buck?

By Major Ralph W. French

MANY HUNTERS HAVE argued late into the night about the physical factor that makes a bullet effective in bringing down a buck. Some insist that it is a large heavy bullet which insures lethality, others that velocity is a more important factor. John Taylor, a professional hunter in Africa, has a good case for velocity (RIFLEMAN, July 1947, page 31) though a pertinent issue is raised by the implication that, while velocity is the prime factor, the reason is unknown. If it is agreed that velocity is important, then energy determines the effectiveness of the bullet. On the other hand, if a large heavy bullet is the factor, momentum is more important.

A moving bullet has two physical attributes by virtue of its motion: Momentum, a function of bullet mass times velocity; and kinetic energy, a function of half the mass times the square of the velocity. Power is a measure of the work performed by the kinetic energy.

Considerable thought and some research has been applied to the problem of determining the killing factors of a bullet. However, failure to recognize properly the influence of indeterminate variables has often led to false conclusions. Deformation or the breaking up of a bullet on impact often masks the true operation of its physical attributes due to weight and velocity. Its retardation also may be affected by yaw or other motions due to bullet spin, which materially modify any direct conclusions resulting from a consideration of weight and velocity alone.

Experiment has demonstrated that even the full metal-patch bullet will commonly break up on impact with bone at velocities in excess of 2200 feet per second. The soft-nose, hunting-type bullet will often break up into many small particles in the skin and immediate underlying tissues at impact velocities exceeding 2000 f.p.s. While this means that the bullet is rapidly retarded on impact and that all of its kinetic energy will do work, it also results in the work being done in the skin and other nonvital tissues so that a non-lethal wound occurs. For assured lethality, the energy of the bullet must do a fair measure of its work in a vital area—there must be penetration of the bullet mass.

It is readily seen that these facts can lead erroneously to the conclusion that momentum is the true gauge of bullet efficiency. The large heavy bullet is necessarily launched at relatively low muzzle velocities; hence it will have low striking velocities, usually less than 2000 f.p.s. Under such a condition, the bullet will penetrate to vital areas without breaking up. Its energy will do work where it has significance. On the other hand, super-velocity bullets will often break up in the hide of an animal and fail to kill.

Before trustworthy conclusions may be drawn, it is necessary to analyze carefully the effects produced by a nondeforming missile. A hardened steel ball, such as a ball bearing, best meets the requirements. During World War II a study using steel balls was comprehensively carried out under an Office of Scientific Research and Development contract by Dr. E. Newton Harvey and others at Princeton University. Results were well instrumented and carefully analyzed.

It was shown conclusively that all manifestations of a wound, animate or inanimate, were functions of the amount of energy doing work in producing the wound. It was impossible to demonstrate any consistent correlation between either momentum or power and the phenomena incident to the wound and its effects.

The work was accomplished largely with steel balls at impact velocities ranging from a little more than 1000 f.p.s. up to approximately 5000 f.p.s. Also, some work was accomplished with irregular fragments at similar velocities. Results were comparable.

High-speed motion pictures showed that when a missile penetrates water a temporary cone-shaped cavity (see Fig. 1) was formed. It was shown also that the cavitation goes through several pulsations. Similar events occur in animate tissues, though cavity pulsation may not occur in some less fluid or more elastic tissues.

Dissection of a missile wound revealed first a permanent cavity along the track of the missile. Surrounding the cavity in muscle and similar tissues was a hemorrhagic zone of extravasated blood. It had a volume of approximately twelve times the volume of the permanent cavity. Also, micro-second X-ray showed that some 400 micro-seconds after impact of the missile, a temporary cavity had opened up in the tissues. In certain tissues the temporary cavity went through several pulsations similar to those in water. Through pressure measurements, it was found also that when the cavity had attained its maximum volume, there was a negative gauge pressure in the surrounding tissues. The negative pressure was considered to be responsible for much of the severe tissue damage.

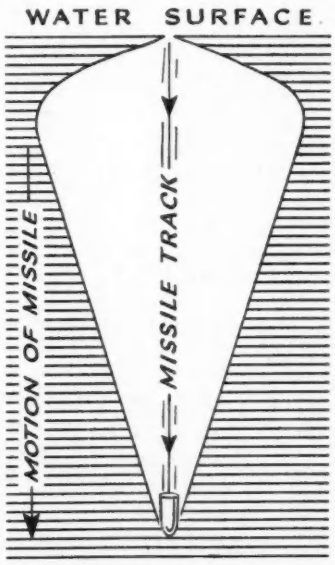


Fig. 1: Diagrammatic sketch of the temporary cavity formed by a steel ball upon impact and pentration of water. Cavity is more than ten times that formed in tissue by ball of same velocity

While immediately on impact of the bullet a shock wave was set up in the tissues, it was found that little, if any, damage could be ascribed to the intense positive pressure, which often reached a value of many atmospheres due to its short duration. Tissue elements were subjected to the severe positive pressures for only a few micro-seconds, while negative pressures lasted for almost as many milli-seconds. Many had anticipated that shock waves would be lethal, but evidence appeared to controvert the idea.

The longitudinal section of the cavity formed by the steel ball in water (see Fig. 1) and in tissues (see Fig. 2) is shown. The shape of the cavity was influenced by the nature of the retarding medium. In animate tissues, the retardation effects

varied considerably, which in turn influenced the shape of the cavity that was produced. Skin offered substantial resistance and prevented the development of the conical cavity typical of water. In the case of the customary bullet shape, a cavity tapered at each end developed due to the yaw of the retarding bullet as it met with tissues of different densities. However, irrespective of shape variations, it was found that total volumes of the cavities were related to the amount of the kinetic energy used in producing the wound.

From a consideration of these facts it would appear that the ideal hunter's bullet should have:

1) Sufficient mass and velocity to insure that adequate kinetic energy is available on impact,

2) Be so nondeforming or so mechanically strong that it is capable of penetration which will carry kinetic energy to where it may be most destructive (skin and superficial tissues can absorb great amounts of energy with little effect).

3) Have dynamic characteristics so that, while it can effect adequate penetration, it would be retarded in a dense medium at a rate sufficient to insure that a maximum amount of the kinetic energy does useful work in producing a lethal wound.

Velocity is the more important factor necessary to meet requirement one as shown by the tabulation of the kinetic energy, at varying velocities, of a bullet weighing 100 grains:

Velocity (foot-seconds)	*Kinetic Energy (foot-pounds)*
500	55
1000	222
2000	887
3000	1996
4000	2549
5000	5546

Note the rapid increase in kinetic energy as the velocity increases above 2000 f.p.s. This is the logical explanation for the generally observed fact that wounds are more severe at impact velocities of more than 2000 f.p.s. It is the justification for the super-velocity missile.

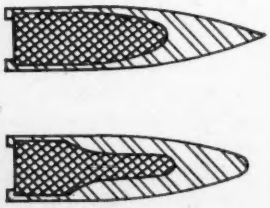


Fig. 3: Bullets suggested as having sufficient strength to stand stress of impact while giving maximum yaw on penetration

The recent trend towards the use of lighter bullets to secure greater velocities leads to some interesting observations. For instance, a 50-grain bullet at 3000 f.p.s. velocity will have 998 foot-pounds of kinetic energy as compared to the 887 foot-pounds the 100-grain bullet will have at 2000 f.p.s. The common 150-grain bullet at 2000 f.p.s. has 1331 foot-pounds.

With the tendency toward super-velocities, requirement two becomes increasingly important. Normal bullet materials have only a certain strength to withstand consistently various strains and stresses. Once the strength limits are exceeded, the bullet disintegrates into small fragments which are wholly incapable of material penetration. While quite effective at impact velocities of less than 2000 f.p.s., usually the conventional soft-nose bullet disintegrates at higher impact velocities. When disintegration occurs, the only missile remaining is the bullet jacket and it lacks adequate weight to provide the kinetic energy necessary for effectiveness. Even comparatively strong full metal-patch military bullets, particularly the older round-nose types, have been known to break up when striking bone at impact velocities of 2400 f.p.s.

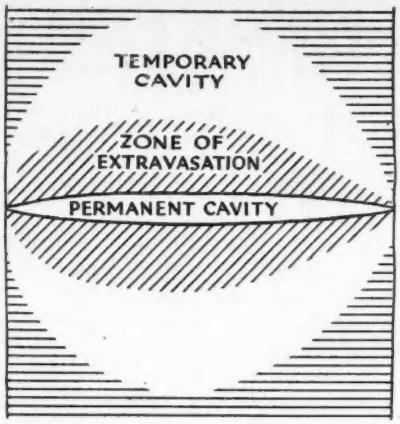


Fig. 2: Relative size of cavities formed in homogeneous tissue by missile passing from left to right

Given the bullet capable of withstanding the stresses of penetration, requirement three makes it necessary that, through comparative instability, the bullet be rapidly retarded in a dense medium so that its kinetic energy performs useful work. While most bullets of reasonable design fired from a barrel with adequate pitch of rifling are fairly stable in air, few are stabilized in animal tissues with a density 800 times that of air. This is specially true of the newer, shorter bullets between 110 and 150 grains weight.

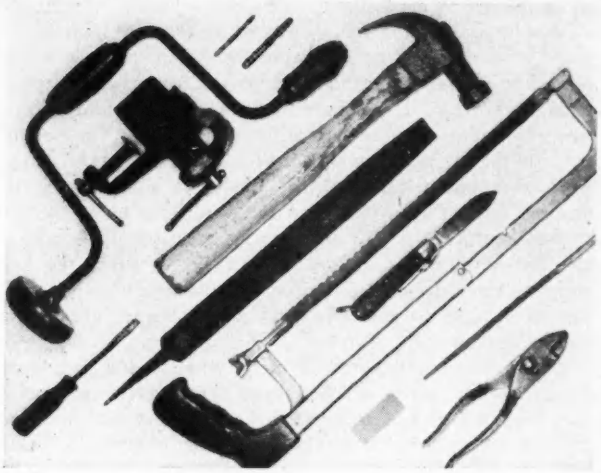
Due to the dynamic principles involved, the shorter bullet will exhibit less stability and consequently yaw more in a dense medium. The increased yaw hastens retardation and results in the bullet leaving a greater proportion of its kinetic energy in the wound. While density of the retarding medium and velocity of the bullet are major factors in affecting retardation, degree of yaw can be the next most important factor.

Yaw in a dense medium can be assured by using a bullet which has its weight concentrated in the base. A full metal-patch bullet can easily be designed (see Figure 3) so that it will go into a high degree of yaw when passing from air into a denser medium. Consequently, such a bullet will be rapidly retarded in the tissues and a maximum proportion of its kinetic energy will do useful work.

To better understand the relative values of wound factors the following tabulation is made for a 100-grain bullet at impact velocities of 3000 and 5000 f.p.s., traversing a distance of one foot in producing the wound.

Impact Velocity (f.p.s.)	*Remaining Velocity (f.p.s.)*	*Kinetic Energy Absorbed (f/p)*	*Horsepower*	*Volume of Permanent Cavity (cubic inches)*	*Volume of Zone of Extravasation (cubic inches)*	*Volume of Temporary Cavity (cubic inches)*
3000	2000	1109	5041	2.8	33.4	73
	1500	1498	6125	3.7	43.6	96
	1000	1774	6450	4.5	53.4	117
	500	1941	6176	4.9	58.4	128
	0	1996	5440	5.1	60.1	132
5000	4000	1996	16330	5.1	60.1	132
	3000	3549	25810	9.0	106.8	235
	2000	4658	29642	11.9	140.2	308
	1000	5324	29040	13.6	160.3	352
	500	5490	27450	14.0	165.3	363
	0	5546	25210	14.1	167.0	367

From this tabulation several lessons become apparent. First, a bullet with an initial velocity of 3000 f.p.s. has to deliver all of its kinetic energy to equal the 5000 f.p.s. missile retarded to 1000 f.p.s. This is one of the reasons for super-velocities. Horsepower has been computed to show that it lacks any correlation with cavity volume or the energy expended in doing work. Also, it will be noted that the power or rate of energy doing work under the hypothetical conditions imposed increases to a maximum equal to one-third of the impact velocity and then decreases as the remaining velocity approaches zero. On the other hand, cavity volume consistently increases with the increase in the amount of kinetic energy doing work.

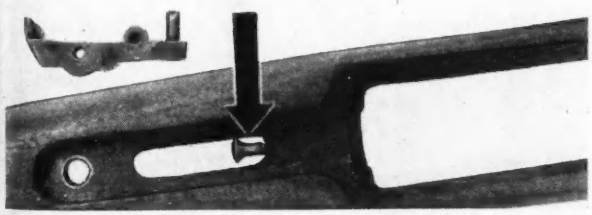


hacksaw gunsmithing

By JAY HOWELL

SINCE ACQUIRING A 1917 Enfield rifle, a good deal of my spare time has been spent in converting it to 'the rifle I've always wanted'. No new parts were purchased and only the tools shown above were used. It took a good deal of time, but it was time usefully spent. If you have the tools, a few sheets of emery cloth, an Enfield and a lot of patience you are ready to start.

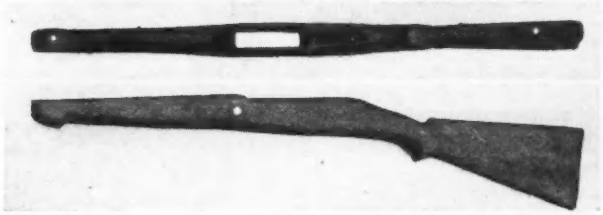
Trigger take-up: The first fault to eliminate in a military rifle is the slack in the trigger. A little is good for safety. Too much makes a hunting arm slow and clumsy to fire. You can remedy this by purchasing a new set-trigger for twenty-five dollars or buying a gadget that screws on the issue trigger for a couple of dollars—or you can use a wood screw.



Remove the action from the stock. Then, working from the bottom, screw a wood screw into the front wall of the trigger well. You will find that when you put the action back in the stock, the head of the screw rests against the front of the trigger. You can regulate the amount of take-up by turning the screw. The correct adjustment calls for a small yet definite amount of the 'smooth' pull before the finger encounters the hard pull. If the bolt binds when the trigger is correctly adjusted, file a very small amount of metal off the top of the lug on the front end of the sear. Be careful here and don't file too much off.

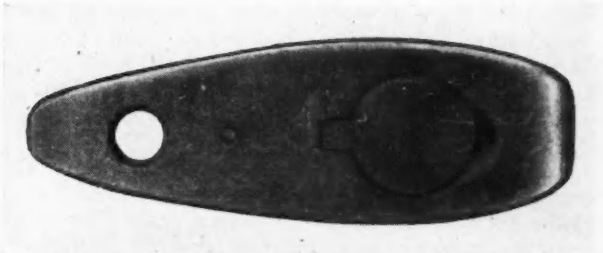
Stock: The next thing to do is to lighten the rifle. The Enfield has a massive stock that was made to withstand hard battlefield usage. It is silly for the hunter to burden himself with this extra weight.

The first step is to throw away the wood that goes on top of the barrel and cut off the stock where the rear barrel band fits. Then it can be whittled down to the desired shape, sand-



papered, and rubbed with linseed oil. A lot of wood can be whittled off the sides and bottom of the forearm. The pistol grip should be left full thickness, but a lot of wood can be taken off the stock behind the pistol grip. If you are used to whittling with a knife, you will be surprised how easy the walnut stock is to work with. Unless you have whittled quite a bit, however, I suggest that you practice on a piece of scrap lumber by cutting out a miniature rifle or two with your knife so that you will learn how to guard against splitting the Enfield stock when you go to work on it.

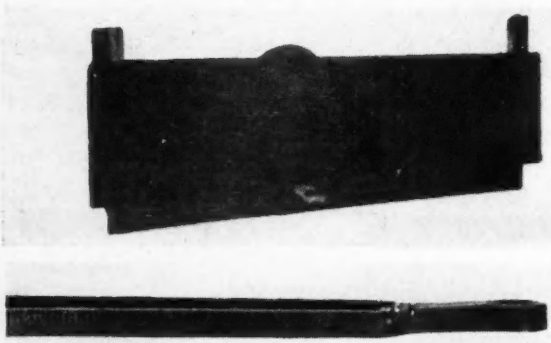
Buttplate: The issue buttplate is well-made, but it is not the



shape desired by most hunters. This can quickly be remedied with a hacksaw and a file. First, make the new lines on the plate with a pencil or a sharp-pointed nail. These marks should be rounding lines that change the rectangular shape to a long teardrop. It amounts to cutting off the four corners by making four rounding cuts with the hacksaw. These rough cuts can then be trued up with the file.

Magazine and trigger guard: The stock should be nearly straight along the bottom from the pistol grip up to the end of the forearm. Not only does this add greatly to the beauty of the Enfield lines but, more importantly, it makes the rifle easier to carry in one hand. Since the balance of the Enfield sporter is right on the ugly bend in the trigger guard, this should be removed.

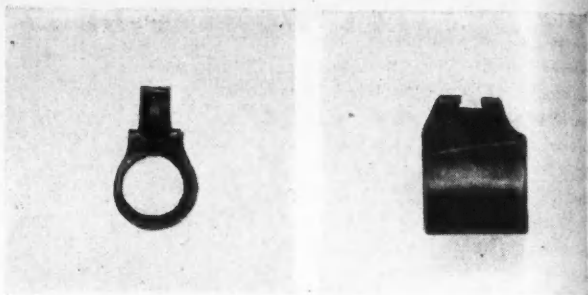
First, pull the magazine out of the receiver and then mark a diagonal line across the bottom of the magazine so that it cuts about a fourth of an inch off the front and a sixteenth of an inch or less off the back. Before cutting with the hacksaw, notice how the trigger guard fits down over the magazine and rests on the four corners that have been cut back. Now, cut along the slanting line and cut back the four corners the thickness of the trigger guard. Also cut out the flat notch in the front wall of the magazine so that the floorplate will fit. Smooth and true up the lines with the file. Second, cut the extra metal off the bend in the trigger guard so that it will be the same thickness all along. Now make two cuts with the hacksaw over each bend cutting nearly half through the bend.



Put in a fire and heat until red hot, then quickly straighten by clamping with the vise jaws. This makes the guard just a little longer than it was, so it is necessary to shorten the distance between the screw holes by cutting each toward the center with a small round file so that the screws will go through and engage the threads in the receiver. Third, whittle the bulge off the bottom of the stock. Go easy and use short strokes, because the thin wood around the magazine well is very easy to split.

Next, the recess in the stock must be deepened a little so that the guard will fit down into it. With the hump cut off, the shoulder on which the guard rests comes to the surface and must be lowered back so that the guard will fit snugly inside the stock. There is not much wood to be removed, and it doesn't take long to scrape it out with the point of a sharp knife. A little wood will probably have to be removed from the front end of the recess to make room for the lengthened guard. It can be gouged out a few splinters at a time with the point of a knife.

Don't be too impatient if these pieces don't fit back together perfectly the first time, because they probably won't. Just try to find out *why* they don't fit, and then scrape a little more wood off the stock or a little more metal off the magazine.

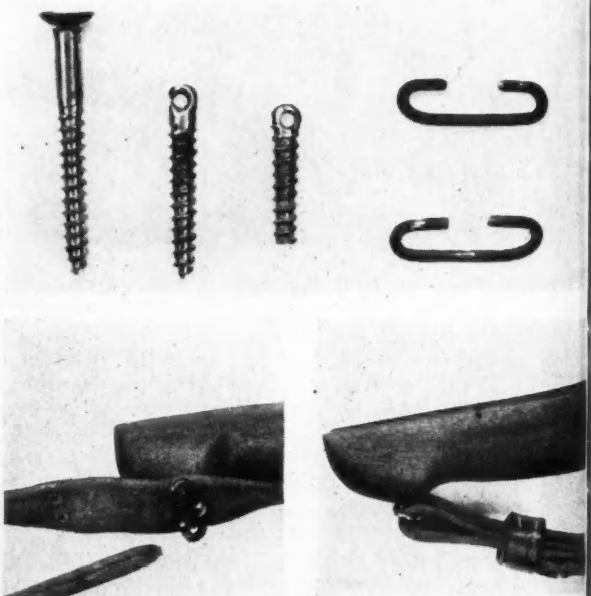


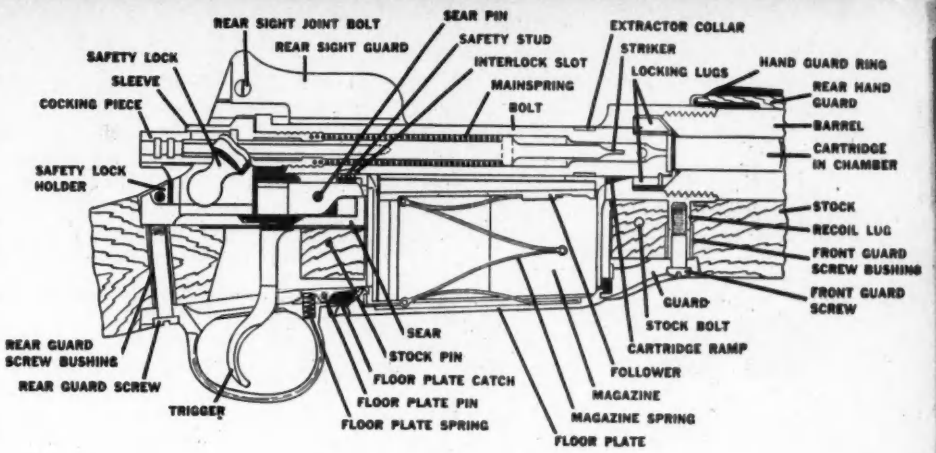
Front sight: The front sight can be converted into a sporting-type sight by cutting off the wings.

First, punch out the pin that locks the sight to the barrel. Then, using a block of wood so that you won't mar the metal, hammer the sight off the barrel. Next, mark the position of the sight blade with a sharp nail or knife point and punch it out so that it won't be damaged. It punches out to the right. Put the sight band in the vise with the wings up and cut them off. After smoothing with the file, go over it with emery cloth so that the file marks won't show.

Swivels: The service swivels are impractical for hunting because they rattle and are not detachable without a screw driver. It is hard enough to keep from stepping on twigs and branches without having a noisy rifle giving you away.

First, remove the swivel base from the butt and whittle out a piece of wood that will fit into the oval hole that is left and glue or cement it in place. Next, get two big wood screws about two inches long. Then, using a brace and bit or the punch on a Boy Scout knife sink holes into the butt and forearm so that when you put the big screws in they won't split the wood. Be sure you don't make the holes so big that the threads of the screws can't get a grip. Now, while the heads are still on the screws, screw them into the holes until the threaded part is all down in the wood. Mark the shafts of the screws about three-eighths of an inch above the wood and cut them off there. Round off the top of the stud with a file and drill a hole through it. The hole should be just a little bigger than the C rings. These rings can be made from the wire of a heavy coat hanger or bent out of a nail after filing

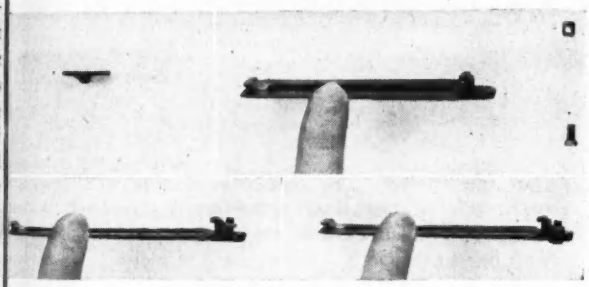




the head and point off. If the forearm is not very deep, it may be necessary to cut off the point of one of the screws. Holes must be punched in the center of the sling so that the stud will project through it. A fired .22 case will punch a hole about the right size. The sling is attached by pushing the stud through the hole in the leather and pushing the C ring through the hole in the stud. Lock the ring in place by passing the top of the sling through the opening in the C. The whole affair should fit tightly. If it doesn't, give the screws a half-turn or so to the right.

Floorplate: The Enfield floorplate is made so that it can easily be released by using a metal-jacketed bullet. A handy release button can be made out of a small bolt and two nuts.

The first step is to press out the pin that holds the floorplate lock in the trigger guard, remove the lock, and file off the release lug that projects down against the release hole in the floorplate so that only a flat rocker is left. Second, the base of the catch on the rear of the floorplate must be filed so that a nut will intercept the bolt passed up through the hole from the bottom. The hole in the floorplate will probably have to be drilled out with the brace and bit so that the shaft of the bolt will pass through. To keep from filing away too much of the catch, one side of the nut should be filed back to fit up

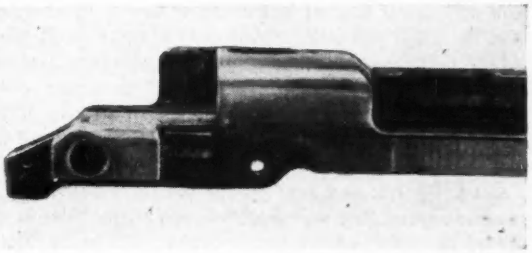


against the catch with the hole centered over the hole in the floorplate. It will be seen that pressing the head of the bolt will put the lock up so that the floorplate will slide back and drop out. Third, to give the job a finished appearance, the head of the bolt must be countersunk by drilling the hole out from the bottom with a drill a little larger than the head of the bolt. Care should be taken to see that the drill does not go clear through. If you use a screw with an ordinary head, you should screw a nut up tight underneath the head and file it round and even with the head. This will give enough thickness to the 'push button' so that part of it will be in the hole and yet enough of it will stick out to operate easily with the finger.

Safety: The Enfield has about the best safety found on military rifles, but it can stand improvement. The main objection is that it is clumsy and noisy to operate. It should have a smooth, well-worn movement and still lock securely in both the on and off positions.

First, with the receiver out of the stock, remove the screw and little block behind the safety. Push the safety handle back and down and, working it back and forth, pull it out of the receiver. Push out the shaft (that locks the bolt handle down) and spring, noting carefully how they fit in the receiver. In the center of the safety stem or axis is an eccentric cut with sharp corners which slips in and out of the V end of the shaft as the safety handle is rotated. These corners should be rounded a little with the edge of the file and smoothed with emery cloth wrapped around the file. The inside of the V on the shaft should also be smoothed. This can be done by rubbing it with emery cloth wrapped around the shaft of a screw driver. To reassemble, insert the shaft and spring back in the hole and depress the shaft with an ice pick or a nail and push the safety back in. After you get the safety half of the way in, it will hold the shaft down and you can push it all the way in when you take the ice pick out.

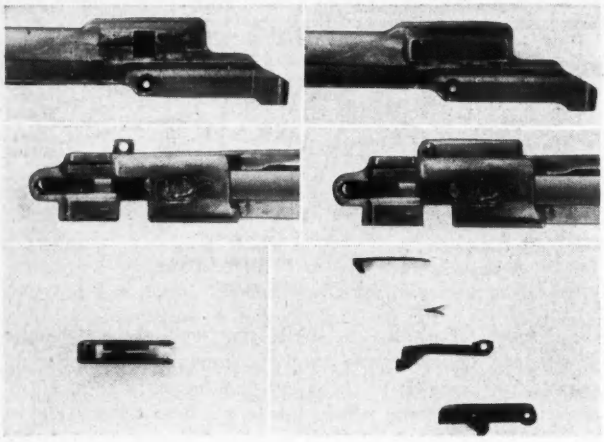
Receiver: The first thing to do is to scratch a line along each side of the receiver to serve as a guide in cutting off the ears. These lines should be placed so that the hacksaw blade passing through them will cut off about one-sixteenth of an inch from the block between the ears and leave about three-sixteenths of an inch of metal in the bridge which covers the bolt. This is quite a bit of metal to cut by hand, but it can be done with high-speed blades. If you put in a new blade about halfway through the cut, the work will progress much faster, but this is not at all necessary. Great care should be taken in getting



the lines in the right place and in following the lines in cutting. Stop and let the metal cool now and then. After the cut is completed, smooth and round the edges of the cut with the file. Use long strokes as though you were sharpening a hoe. Other surfaces can be smoothed and corners rounded around the bridge as shown in the pictures. Finish with emery cloth.

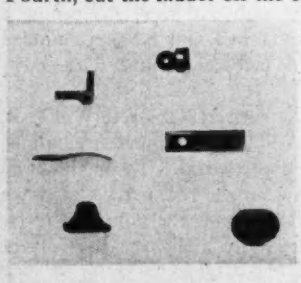
Bolt stop: The issue bolt stop is entirely satisfactory as it is, but it is possible to alter it so as to give it a more streamlined appearance and get rid of some more metal. To do this, first make two cuts with the hacksaw on the receiver. Cut down vertically just behind the two studs that the bolt stop screw goes through. Then cut horizontally along the base of the

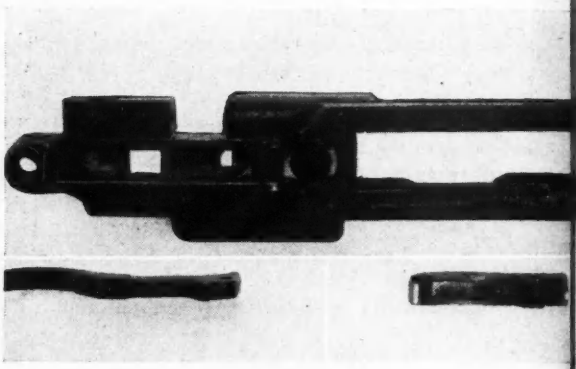
receiver so as to intersect the bottom of the first cut. When the block of metal is removed, smooth the cuts with the files and emery cloth. Second, the rear end of the bolt stop spring must be cut off even with the end of the bolt stop. Bevel or



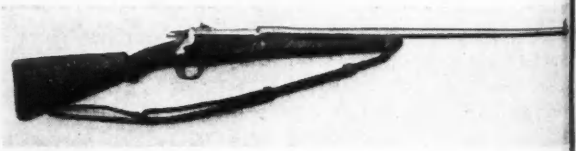
round the newly cut end so that it will conform to the shape of the bolt stop. Third, cut the spring off the ejector and file the base of it so that it will not touch the end of the bolt stop spring as it pivots around the screw. Fourth, file the lug off the top of the bolt stop and file a slanting notch in the front end to provide a grip to pull it out with. Fifth, punch out the pin that holds the catch in the traveling peep sight and take out the small flat V spring. Now reassemble the parts, inserting the V spring point forward between the ejector and the bolt stop spring.

Rear sight: A good sight can be made from an L-shaped piece of metal by attaching one arm to the receiver with the old sight spring screw and cutting a V notch or a peephole in the arm that sticks up. A more versatile sight can be made from the issue sight and the old rear swivel base. First, put a piece of paper over the oval recess in the top of the receiver and press it with the finger so that the outline will be impressed in the paper. Cut or tear around the outline, put the oval paper on the bottom of the swivel base and mark the outline so that you will have a general idea of where to cut. Cut off the ends and file until the oval base is a very tight fit in the recess. Metal will have to be filed off the bottom of the base so that it will fit well down in the recess. Widen the space between the two lugs until it is nearly three-eighths of an inch wide. One of the lugs has threads in it. These can be removed by using the square 'handle' end of the small, round file as a reamer. Second, the nut and head of the old sight bolt must be filed smaller so that they will fit closely *inside* the holes in the lugs. Third, cut the sight spring so that it will fit in between the lugs and cut the end of it off even with the end of the receiver bridge. The tension can be reduced by filing the metal thinner. It can also stand a little bending after it is thinned down. Fourth, cut the ladder off the old sight and file the block down until it will fit closely between the two lugs. You are now ready to assemble a simple folding sight. If you want to go one step further, have a nut welded on the sight where the ladder was cut off. This will give you an L sight similar to the one on the M1 carbine. With the round file, enlarge the hole in the nut to about one-four or one-third of an inch, and you have a giant peep for snapsho and shots in poor light. With a flick of the thumb, you c have the ordinary peep for the long range shot where you ha more time. Care should be taken to see that the center of t big peep is the same distance above the axis as the center of t small peep. The peephole should be cone-shaped so that will not reflect light into the eye. The rear surface of t sight should be matted for the same reason. This can be do by putting a piece of emery cloth over the surface and tappi lightly with a hammer. Assemble the parts, forcing the n along the shaft of the bolt. Cut the bolt off even with the nu Holding the screw driver against the cut-off end and align with the slot in the bolt, tap it lightly with the hammer. T the sight base into the oval recess, slip the spring in place b tween the sight and base and lock the whole affair with t spring screw. To bore sight, put the action in the vise a looking through the bore, center on an object at the desir range. Then check the sight alignment. If the sight pictu is faulty, correct by changing the position of the front sig blade.





Trigger mechanism: The particular hunter who wants velvet smooth trigger pull will want to take time to work o his trigger. The parts can be stoned with an Arkansas sto or with fine emery cloth. If you use emery cloth, lay a pi down on a hard flat surface and rub the sides of the trigg and sear over it until they are smooth. Also polish the top the trigger that bears against the receiver. Then wrap a pi of emery cloth around a small block of wood and polish t inside of the sear where the trigger fits and the inside of t recess in the receiver where the sear fits. The receiver is pr ably scratched or worn where the top of the trigger be against it. Particular care should be taken to polish out th



scratches. These polishing operations will cause most of t jerkiness in the trigger to disappear.

Finally, white areas in the metal can be touched up with t advertised bluing preparations, if desired. When the riflem finally completes all the above operations, he will have a fi sporting-type weapon of which he can be justly proud. H will also have a rifle that he will want to keep as a silent an self-perpetuating memorial to constitutional government an the right to keep and bear arms.

LEGISLATIVE Bulletin

A MONTHLY ROUND-UP OF CURRENT LEGISLATION

The first four months of 1949 saw forty-five of the forty-eight state legislatures in session. An all-time record of bills aimed at firearms control have been introduced. In every case in which the proposed bill contained any threat to the rights of legitimate sportsmen the NRA issued a special bulletin to its members calling their attention to the dangerous or foolish features of the proposed law. Bulletins also were issued on bills deserving of active support and on bills the provisions of which would be of specific interest to NRA members. Here is a state-by-state revue of what has happened in the various legislatures since the last issue of THE AMERICAN RIFLEMAN went to press. In those states where the legislature has adjourned since the last report it is assumed that pending legislation died with the legislature unless otherwise noted.

Arkansas: Senate Bill 319, reported last month, would prohibit the possession of any military missile larger than .50 Caliber. *Action:* Vetoed by Governor. Legislature adjourned.

California: Assembly Bill 210, reported in March, would prohibit possession of a loaded gun in a vehicle. *Action:* None.

Assembly Bill 1690, reported last month, would prohibit discharge of a firearm in urban areas. *Action:* None.

Colorado: House Bill 1054 by Representative Radetsky, reported in March. *Action:* None.

Connecticut: Senate Bill 874, reported last month, would prohibit possession of firearm without permit. *Action:* Killed.

Senate Bill 184, reported in March, would prohibit possession of loaded firearm in vehicle. *Action:* None.

Delaware: House Bill 249, reported last month, would prohibit shooting of game flushed by farm machinery. *Action:* None.

House Bill 285, reported last month, would impose 10 percent tax on sporting goods. *Action:* None.

House Bill 280, reported last month, would prohibit possession of loaded firearm in vehicle or on farm machine. *Action:* None.

House Bill 428, by Representative A. W. Cochran, would prohibit discharge of any rifle larger than .22 except on state authorized rifle ranges. *Action:* Killed in House Military Affairs Committee.

Kansas: House Bill 184, reported last month, would prohibit certain undesirable persons from possessing a pistol or revolver. *Action:* Reported unfavorably by Senate Judiciary Committee. Legislature adjourned.

Maine: Senate Bill 425, reported last month, would amend game law to permit seizure of firearms, vehicles and equipment. *Action:* None.

Senate Bill 540, by Senator Slocum, would attempt to reduce hunting accidents by creating Hunter's Examination Boards in each town. *Action:* Reported unfavorably by Committee.

Maryland: Senate Bill 187, reported in March, relates to granting of licenses to carry weapon. *Action:* Passed in Senate.

Massachusetts: Senate Bill 97, by Senator Michael Condron, would prohibit possession of firearms other than .22, between sunset and sunrise, in any place where deer might be found. Referred to Joint Conservation Committee. *Action:* None.

Michigan: House Bill 53, reported in March, would increase the fee for a license to sell, purchase, possess or carry firearms. *Action:* Passed in House, now in Senate Judiciary Committee.

House Bill 149, reported last month, would prohibit use of .22 caliber rifle for deer or in any area frequented by deer. *Action:* None.

Minnesota: House Bill 154, reported last month, pertains to the sale or furnishing of air-guns. *Action:* None.

House Bill 930, reported last month, would amend penal state status to control use of air-guns. *Action:* Passed and approved by Governor.

Nevada: Assembly adjourned March 27.

New Hampshire: House Bill 327, reported last month, provides that the deliberate use of an artificial light to illuminate game by a person having a rifle or shotgun in his possession or in his automobile shall be sufficient evidence of illegal night hunting. Further provision is made for confiscation of firearms and vehicles. *Action:* None.

New York: (Legislature adjourned March 30th.) Assembly Bill 1076, reported last month, would prohibit possession of rifle larger than .22 when afield accompanied by a dog. *Action:* Amended to apply only to Adirondack Park. Passed and approved by Governor.

Assembly Bill 1007, reported last month, would require persons purchasing ammunition to exhibit license. *Action:* Killed.

Assembly Bill 1811, by J. A. Fitzpatrick of Plattsburg, provides that fingerprints, etc., required for license to sell firearms need be submitted only with original application. *Action:* Passed Assembly and Senate. Vetoed by Governor.

North Carolina: House Bill 811, by Representative Burl G. Hardison of New Bern, would prohibit possession of loaded firearm on a public highway and would make such possession prima facie evidence of game law violation. Referred to House Wildlife Resources Committee. *Action:* Reported unfavorably by Committee, probably killed.

House Bill 736, by Representative R. G. Powell of Reidsville, would make it unlawful for game wardens to carry firearms. *Action:* None.

Ohio: House Bill 11, reported in March. *Action:* Passed in House February 21st. No further action reported.

Oklahoma: House Bill 244, reported last month, would prohibit possession of rifle larger than .22 in any area known to be frequented by deer. *Action:* Reported unfavorably by Game and Fish Committee. Probably killed.

House Bill 471, by Representative Joe R. Cannon of Muskogee, would require registration of all firearms in Oklahoma. This bill provides further for search, seizure and destruction of unregistered private firearms. *Action:* Referred to Ways and Means Committee.

Oregon: House Bill 441, would prohibit the possession of a loaded firearm in or on any vehicle on a highway unless specially licensed. Referred to Committee on Game. *Action:* Indefinitely postponed in Committee. Probably killed.

Pennsylvania: House Bill 385, reported last month. *Action:* None.

Senate Bill 208, reported last month. *Action:* None.

House Bill 365, by Representative W. Henry Elder of Jersey Shore is very similar in its provisions to Senator Haluska's bill, Senate No. 208 (above). House 365 passed in the House; both 208 and 365 are now in the Senate Forests and Waters Committee. *Action:* None.

House Bill 1066, by Representative Robert F. Kemp of Meadville, would authorize one-armed persons to hunt game with semi-automatic weapons. Referred to Game and Forestry Committee. *Action:* None.

House Bill 1176, by Representatives Wayne M. Breisch of Ringtown and W. Henry Elder of Jersey Shore, would prohibit the discharge of a firearm in the Commonwealth of Pennsylvania except under certain conditions specified in the bill. Referred to the House Judiciary Committee. *Action:* None.

Texas: House Bill 409, reported last month. *Action:* None.

House Bill 403, by Representative Willis of Tarrant, would make it unlawful for any person who has been convicted of a felony to possess firearms of certain types. The original draft of this bill received by NRA omitted the wording *of a felony.* This omission was pointed out in the Legislative Bulletin mailed to all Texas members. Apparently the omission was typographical. The bill does apply to persons convicted of a felony under the laws of the United States. Referred to the House Committee on Criminal Jurisprudence. *Action:* Substitute Bill reported by Committee.

Wisconsin: Assembly Bill 184, reported last month. *Action:* Amended in Assembly in manner suggested in NRA Legislative Bulletin to Wisconsin members. No final action reported in assembly.

WHAT'S IN THE WIND?

By Robert E. Perkins
As Told to William C. Devine

When air is boiling off the ground and mirage is flowing, how can you hit the X-ring?

FROM A BEGINNER'S viewpoint, small-bore target shooting is tough. Like any other form of competitive sport, however, once you get on to it and become good, you no longer think of perfect scores as being difficult. Shooting becomes a pleasant form of recreation in which the individual tries to shoot as many possibles as he can regardless of existing conditions.

Shooting possibles, of course, means doping the weather conditions, which obviously calls for an estimable degree of skill. Learning to dope wind and mirage isn't easy. I know, because I had to shoot for seven years before making an appreciable showing.

The average shooter, providing he is in good shape physically and mentally, can become as good as any other shooter if he will discard a lot of the odd notions the average shooter seems to have and get down to brass tacks.

One of the silly notions that perpetually float about is that you've got to be a superhuman machine physically—eyes like a hawk, nerves like a dead wire, and the steadiness of the Rock of Gibraltar—before you can shoot like Wayne Moore or myself. I don't know about Wayne, but if you're going to compare me with the Rock you had better forget small-bore shooting and take up something else. Any shooter, no matter who he is, is only as good as his mental condition will permit.

The business of holding very steadily has its points, but holding is not everything. In fact, it's just half of the game. The other half consists of knowing where to hold. It is the 'where to hold' in which we are primarily interested in this article. There is no need to dwell at length upon position and holding because you should already know something about those phases before you start fooling with wind and mirage. However, the importance of cadence and coordination while squirting lead should be pointed out.

It is generally understood that if one does something, anything, the same way every time, the result is going to be the same each time he does it. What single word can best describe that situation? Rhythm, of course. Imagine an athlete taking the hurdles differently every time he leaps. Wouldn't it be a laugh to see him jump high over the first hurdle, low over the second, run like mad for the third, and then walk around the next? A fat chance he'd have against a well-trained competitor who had developed cadence and coordination.

People are constantly amazed because I am always the first shooter to leave the firing line during a match. Because of rhythm I can shoot my string, often getting a good score, and put my equipment away while most of the other competitors are sighting-in.

At the Pacific Coast Championship last year, held on the Alhambra range in Los Angeles, I really got going in one match. Jack Serbian, of the Fresno Rifle and Pistol Club, timed me in a twenty-shot string. After my last shot he stopped the watch and looked twice to be sure he had read it right. One minute and fifteen seconds was all the time I had taken to shoot my string, getting a possible and sixteen X's. I didn't shoot in a terrific hurry; I simply didn't waste any time. Without shooting any faster than usual, I just aimed and fired, put another cartridge in the chamber, and aimed and fired again. Rhythm—that's all there was to it.

The best way to develop cadence and coordination is to learn to make up your mind where you're going to hold and

then do it without taking more time for one shot than for another. In other words, limit yourself to time between rounds, and shoot whether you think you have doped the conditions right or not. Maybe you won't win that almighty piece of brass for a while, but the day of reckoning will come.

A word about squeezing. You will agree with me that squeezing means a slow, a painfully slow process of getting your shot off. I can't see taking sixty seconds to shoot one round when two or three seconds will do. Your first sight picture is the best, invariably, and if your timing is right all of your shots will go off in comparatively the same length of time. If your coordination is off, you may wham one shot off in one second and then take five minutes for the next instead of taking the same time for each individual shot. If I can snap the trigger without jerking, and not use the old hold-and-squeeze method, I never have any trouble with so-called 'trigger-itis'. Because I hold the stock firmly and keep my trigger finger alive, jerking doesn't occur. Many shooters lie on the line and squeeze; and they groan and they grunt and they squeeze until the trigger seems to have acquired a pull of twenty pounds or more when actually the finger is hardly touching the trigger. They tighten up so on everything but the trigger that they can't hold the sight picture. In the meantime, the zephyrs merrily dance an about-face and waltz in the opposite direction, taking the bullet with them.

The best way to learn trigger pull, to my way of thinking, is to take up pistol shooting a little, especially rapid fire. There you must pull the trigger through quickly, smoothly, and without jerking it. It's a quick trigger pull, but what of it? You get the shot off without exhausting yourself and you've got another X without feeling you are missing the strength to finish the string.

On the Pacific Coast the ranges are built, out of necessity, in ravines and hills, and the wind sweeps back and forth, picks up and drops dead, and then starts again. You must take one look at the condition and shoot before it changes. The Coast winds can make a complete change within seconds. If you lie and squeeze, and squeeze, and squeeze, you'll never know why your bullet went where it did.

In small-bore shooting there are several important things. Let's go through a twenty-shot string and see how it's done.

Our shooting block lies before us on the mat with the twenty cartridges for record in order so we can't get confused. We hear the command to commence firing. We fire several fouling shots into the bank or the ground immediately in front of the firing point and then put our eye to the scope and wiggle around until the cross hairs settle on the X-ring, noting the direction of the wind and the strength of it. Our shot lands

A good small-bore shooter, says Perkins, should be more concerned about how quickly he can adjust to changing conditions than how steadily he can hold

Note Perkins' relaxation in position. Absence of muscular tension allows the shooter to dope the wind and concentrate on where to put the bullet

in the eight-ring at five o'clock. We don't waste time counting the clicks one by one all the way up and over. We know that a normal twist of the hand on the knob is going to raise the scope one minute. So we give the elevation knob two and a half twists up and the windage knob one full twist left, then load, aim, and fire again. We're in the X-ring—just like that. What's the matter, we did it, didn't we? That's all there is to it. All the business of keeping track of the number of clicks one way or the other is silly. What do you care what the reading is. You can change it if it's wrong.

Now comes the most important part. We're not sighted-in yet. We're just in the X-ring, which doesn't mean a thing if you don't know how to stay there. Before we start shooting for record we want to know how much the wind or mirage is going to move our bullet both right and left. You look for indications of the wind, such as flags, grass, weeds or what have you, about two-thirds the way down to the target because that is where the bullet is affected most.

Focus your spotting scope about two-thirds the way to the target because that is where you want to read the mirage. Mirage is very easily seen, because the air is boiling off the ground with the ever-present heat and is usually to be relied upon. Looking through the spotting scope with no wind blowing, we see the mirage boiling up. It appears to be a series of bubbles, overlapping each other, going straight up. Right now is a good time to take another shot and see what happens. We fire holding dead center and we see the bullet strike in the nine-ring at twelve o'clock. We now know what to do when we see the mirage boiling straight up—hold off the distance the bullet was out of the X-ring at six o'clock. We won't bother to try it again. We don't want to take all day experimenting. Besides we don't want to clutter up the sighting bull so we

can't see the established pattern during the record string if we want to refer back to it. We wait a few seconds, watching through our spotting scope until the wind picks up. By the way, while waiting don't put a cartridge in the chamber because it will warm up in the hot barrel. That will raise the pressure and send the bullet where it shouldn't go, probably in the nine-ring, anywhere from ten to two o'clock. That's another darn good reason for maintaining cadence and coordination. As the wind picks up we note that the mirage bubbles flatten out, flowing in the direction the wind is going. The stronger the wind the flatter the bubbles appear. That is your gauge for wind velocity. With the wind blowing from right to left, we hold center and fire again. Our shot lands on the ten-ring, almost out at nine o'clock. Then we watch until the wind reverses and blows in the opposite direction at about the same intensity and we fire again using the same hold. The shot lands on the nine-ring, almost an eight.

Now we have our pattern. Keeping in mind the velocity of the wind during sighting-in, we know how much to hold, —more if the wind is stronger and less if it is weaker.

Match shooting is as simple as that, but you must stay with conditions even if you're not sure of them or if the hold does not look right to you at the time. You won't have any trouble staying with it if you have dismissed the idea of winning a piece of brass. If it's the brass you want and you are satisfied with a second place marksman piece . . . well, you're entitled to curdle your own desires. I can't see any sense in spending a lot of money on fine equipment just to earn medals. Shooting is basically a sport-pleasing pastime, and a championship is an ambition worth the accomplishment. Sure the medals are nice, but accept them for what they are. Don't shoot for the medals themselves or the pin-money awards, shoot for good scores and the improvement of your scores.

With our pattern established we can proceed to shoot for record. We have noted that when the wind blew our sighter out at three o'clock the bullet went out farther than when the wind coming from the opposite side moved it out at nine o'clock. Here a certain fact of physics enters the picture that must be carefully understood. Most rifles have right-hand twists. Therefore a wind coming from three o'clock has less effect on the bullet than a quick-change wind coming from nine. With the bullet turning into the wind coming from three o'clock, the course of flight will not be affected as much as when the wind is coming from nine o'clock and the bullet is turning away from the wind. The shooter must be on the ball every second, alert to every change. If he makes one mistake, he's down one point. If he makes too many mistakes, he's down too many points.

A good belly-shooter obtains the value of each shot by knowing the dope before he fires for record, thus eliminating the necessity of continually going back to fire a confirming shot on his sighting bull. With the sighting-in pattern, he will know what the values are for the full twenty record shots by referring to the sighting bull at the top. Also, the conditions for the bottom bull at one hundred yards are different enough from the conditions on the sighting bull to make an extra shot at the sighting bull have little value for correction. Most Pacific Coast shooters find, when they go back to the sighter, that conditions have changed so rapidly that their sighter is an X and their shot for record is a nine. If you have fired a record shot and it was a nine or almost a nine, don't waste time, effort and ammunition shooting at your sighting bull. Just as soon as you see where your bullet hit the target look at the condition down the fairway instantly, before it's too late, and see why it happened. Don't groan or cuss your hard luck. You're not interested in whether or not you made the ten-ring. You're interested in how far from the X-ring the bullet hole is, and why.

Okay, so you're out at two o'clock. A quick look at the conditions tells you that the wind is still coming from the right but has shifted from three o'clock. Hmmmmm, you think, a tail wind flattened out the trajectory, raising the point of impact, and the difference in direction eased the broadside pressure on the bullet, permitting it to follow more closely its course of alignment, thus going to the right.

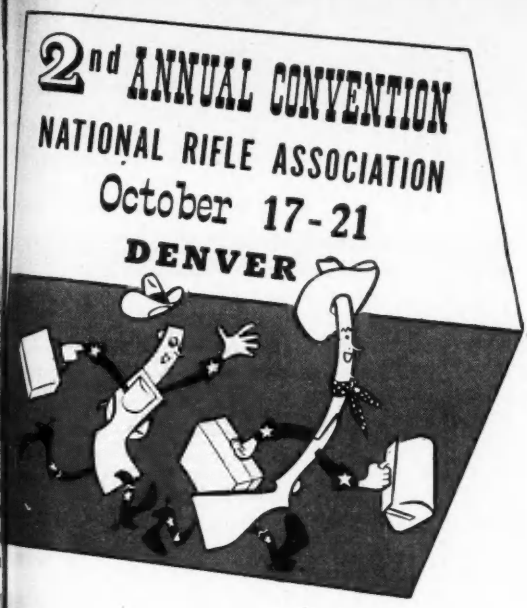
Hold at eight o'clock on the ten-ring? Before you let the next one go you'd better observe that the wind is continuing around the clock and blowing fairly hard from nine o'clock. For crying out loud, buddy, get moving, and stop getting panicky. Quick now, hold at nine o'clock on the eight-ring. Wham. Good boy, it's an X. How come I told you to hold as far out as the eight-ring? Well, remember we had to hold over for windage plus the addition of the turning bullet.

Another factor is involved. Mirage will lie to you about the sight picture. Through an odd process of bending the light rays, the mirage will make the image of the bullseye seem higher or farther over than it really is, depending on which

Perkins has found the juniors of the club he coaches at Roosevelt High School, in Fresno, Calif., enthusiastic about learning the shooting game

direction the wind is carrying the mirage. If the mirage is boiling straight up, with no wind at all, you must hold low at six o'clock somewhere around the nine-ring more or less, depending upon the strength of the boil. To know exactly how far to hold off center, you must observe your shots.

If a newcomer could find an older and more experienced shooter who would be willing to coach him, I am sure the results would be more than gratifying. I would advise a beginner, wherever he may shoot, to try to make as many registered matches, or at least matches where there is some competitive spirit, as he possibly can. A shooter who goes out on Sundays and shoots six or seven strings just for practice will find that he will not try as hard or take as much interest as he will if he has fifty other shooters on the line asking how many he dropped. ◆ ◆ ◆



Reward a club officer who has done an outstanding job, or 'draw straws' to select a delegate to represent your club at Denver . . .

Seven hundred and thirty registered delegates from forty-six states . . . including Alaska and Hawaii . . . attended the first NRA Convention. Three hundred and forty-five of these delegates represented NRA affiliated rifle and pistol clubs . . . many sent at club expense to take part in the important business of the convention.

Plans for Denver in '49 assure a bigger and better convention in every way. More delegates (1500 expected) . . . a bigger 'Commercial Row' (over 2,000 additional square feet of hotel exhibit space) . . . a full week of business sessions, committee meetings and discussions . . . plus many entertainment features for delegates and their families. Make your plans now to include the NRA Convention in your vacation schedule . . . and bring the family along. Mountain trips . . . luncheons . . . a fashion show . . . many other activities are planned to make this convention a never-to-be-forgotten experience for the whole family.

There are lots of ways to raise the price of a round-trip ticket . . . a turkey shoot, a special match as a feature of your Summer tournament, or a benefit dance . . .

Don't let your club be left out of this national get-together of shooters and club representatives. If you act now there is plenty of time to raise club funds by holding a benefit . . . a special match . . . a turkey shoot to pay the expenses of a club delegate. The club will gain in experience and prestige and will be making a real contribution to organized shooting.

Plan now! Act now! A postcard will bring you a reservation form to assure excellent and reasonable accommodations for yourself and family or for the representative that your club or shooting group plans to send. ♦ ♦ ♦

We'll be looking for you in Denver, and expecting your club delegate to cast his vote in the councils and committee hearings that regulate our sport . . .

National Rifle Association of America

YOUR NRA DOLLARS

1948

WHERE THEY CAME FROM

THE AMERICAN RIFLEMAN 58.5%

387,619.88	subscriptions
333,066.99	advertising
12,590.44	single copies
733,277.31	total

MEMBERSHIPS 33.1%

330,772.69	individuals
48,452.61	club members
35,711.30	club affiliations
414,936.60	total

COMPETITIONS 2.8%

16,122.91	fees
19,159.08	insignia, sales
35,281.99	total

OTHER 2.5%

14,055.05	sale of books, etc.
5,573.73	interest, etc.
11,089.58	other
30,718.36	total

WITHDRAWN FROM SURPLUS 3.1%

39,358.18

$1,253,572.44 total

WHERE THEY WENT

58.8% THE AMERICAN RIFLEMAN

advertising expenses	45,765
editorial and fulfillment	137,004
printing and mailing	553,907
total	736,677

20.6% MEMBERSHIPS

promotion and fulfillment	129,385
club services	82,956
field offices	45,697
total	258,040

11.1% COMPETITIONS

international matches	3,354
national matches	23,374
regional tournaments	15,969
other services and awards	96,377
total	139,076

9.5% OTHER

technical	54,868
public relations	45,601
members' convention	19,308
	119,778

total $1,253,572.44

HOW WE STAND
DECEMBER 31, 1948

TO MEET OUR OBLIGATIONS

WORKING FUNDS 48.4%
cash, receivables, prepaid expenses, and merchandise held for sale

414,419.79

INVESTMENTS 29.7%

254,689.62

LAND, BUILDINGS AND EQUIPMENT NET AFTER DEPRECIATION 21.9%

187,527.81

$856,637.22

OUR OBLIGATIONS

4.6% DUE CREDITORS

39,673.

88.9% DUE MEMBERS FOR UNFULFILLED PORTION OF DUES AND SUBSCRIPTIONS

761,216.

6.5% SURPLUS

WHAT WAS LEFT $55,747.

TOTAL **$856,637.22**

. . . WHAT THEY ACCOMPLISHED

New Generation: The shooting game dies with today's shooters unless the rising generation learns to love the game. At the end of 1948 NRA dollars had developed 2,703 junior rifle clubs. During the year over a hundred thousand young Americans in these clubs learned something about sane gun handling, instruction methods and rifle club *management*. More than half of them came from homes where parents had not previously had any interest in rifle shooting! 1948 showed a net increase of 559 junior clubs (26%) over 1947—better than ten new junior clubs a week developed by NRA dollars.

The youngsters earned 117,846 qualification awards. The 1947 figure was 107,795. National Junior Championships fired on a regional shoulder-to-shoulder basis brought out 469 four-man teams during the 1948-49 school year as compared with 383 in 1947-48. The home-range postal matches, serving as a 'warm-up' for the national championships, found 723 teams on the firing line in 1948. There were 610 in 1947.

Police attitude that kids should be separated from guns has been changed to police-sponsored junior rifle clubs in increasing number of localities.

Future Leaders: Leaders of the next generation in professional, business, military and political fields now crowd colleges and universities. Through the college rifle club we can develop friends who will mean much in the promotion and preservation of our sport in the years ahead. Dormant during the war, college rifle and pistol clubs have been established by NRA dollars on the campus of 207 colleges and universities—a net increase of 57 (38%) over the year-end figure in 1947.

National Intercollegiate Championships, conducted on a regional shoulder-to-shoulder basis, attracted 80 teams during the 1948-49 season as compared with 63 teams in 1947-48.

Foundation Building: The local senior rifle and pistol club is the foundation on which rests the whole structure of organized shooting in America. There can be no organized shooting without target ranges. There can be no ranges without local clubs to build and operate them. Like the main office and factory of any corporation, NRA Headquarters can produce a 'family of products' in the way of a variety of shooting programs for the national market, but the local club is the 'dealer' who must select the 'product' most appealing to its community and 'sell' that product in its home town.

NRA dollars had organized 3,715 senior rifle and pistol clubs as of December 31, 1948, a net increase of 688 (22.7%) over the number active at the end of 1947. An average of better than two new senior clubs organized for each working day of the year shows real dividends for NRA extension dollars!

Bricks and Mortar: The bricks which form the superstructure of the NRA built on the foundation of club activity are the individual members. The mortar which binds the organization together is the Association's monthly journal, THE AMERICAN RIFLEMAN. Many individual members shoot rarely or not at all but support the NRA because they believe its program is good for America.

As wages and paper costs reached all-time highs in 1948 THE AMERICAN RIFLEMAN absorbed larger proportions of the NRA's dollars—almost 60% of all expenditures. Most members agree that the 'mortar' is worth whatever it may cost.

Total individual membership in 1948 was 295,442. This compared with 266,902 in 1947. Total RIFLEMAN circulation reached 307,426 with the December 1948 issue as compared with 281,800 for December 1947.

Turbo-generators: Shootin' matches are the 'power lines' of the organized shooting game and the men and women who chase the elusive 'possible' are the self-starters.

During 1948 NRA dollars paid for the mass of record keeping involved in the classifying and re-classifying of 15,220 'registered' small-bore shooters and 5,348 pistolmen. This compared with 7,773 small borers and 4,773 pistoleers in 1947 and with 4,120 small-bore and 2,759 pistol shooters in 1946.

NRA dollars paid for 253 Official Referees' (161 in '47) attendance at 335 registered small-bore shoots (261 in '47) and 160 pistol matches (108 in '47), traveling 50,358 miles.

Eleven hundred ninety-seven small-bore shooters attended nine regional championships in 1948 with 926 pistolmen going to eight pistol regionals. In 1947 small-bore attendance at the regionals was 1031 and pistol attendance 885. NRA dollars paid for all regional awards in 1948 for the first time.

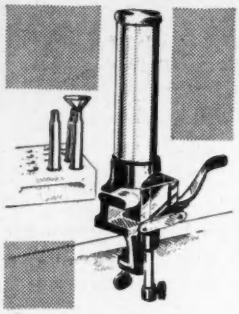
American shooters, backed by NRA dollars, were on the Olympic firing line again in 1948.

Highly important because they reach local club members and tyros not yet ready for major competition are the indoor and outdoor interclub leagues. NRA dollars helped organize 212 such leagues incorporating 1,494 teams in '48. There were 143 leagues with 1098 teams in '47.

Homecoming: Spread all over the country, with interests as varied as their locations, NRA members welcomed enthusiastically the idea of a 'homecoming' where sociability and a chance to argue pet theories and swap tall tales would be the only order of business. The First Annual Convention was voted by all present as a huge success. "I'll be back next year and bring more with me" was the universal parting remark. NRA dollars were well spent on this freshening of ideas and development of mutual understanding.

Around the Clock: Less spectacular but vital were the day after day 'routine' things—Public Relations writing or furnishing material to authors for 31 feature articles in national magazines, for 42,828 inches of newspaper type and pictures, the more than 1000 radio broadcasts and television shows; Technical Division traveling 14,000 miles for personal contacts with manufacturers of guns, ammunition, scopes and accessories, answering 11,104 personal letters regarding domestic and foreign guns, loads, equipment, testing 183 items from gun oil to magnums and reporting results in the RIFLEMAN; Legislative Service battling city and country ordnances that would put the honest shooter out of business—an average of one a week somewhere in America—just routine but dividends that some member, somewhere, is glad to get out of his NRA dollars.

C. B. Lister



HANDGUN HANDLOADS

.38 AND .45 CALIBER PISTOL LOADS

Compiled and tested by Al Barr

THE earliest .38-caliber center-fire cartridge used in this country was of the outside lubricated type, having what is known as a heel bullet. The main part of the bullet was of nearly the same diameter as the cartridge case, and the bullet had a smaller portion, or heel, at the rear, onto which the case was crimped. This cartridge, still made, is the .38 Short Colt, the forward part of the bullet having a diameter of .375 inch.

The Short Colt was used in the Colt New Police Models produced in 1875. To counter the competition, Daniel Wesson of the S&W firm, designed a new cartridge called the .38 S&W. The case, which was of larger diameter than that of the .38 Short Colt, tapered slightly from base to mouth and was made to crimp over the full diameter of the bullet so as to cover the grease grooves. It used 14 grains of black powder with a 146-grain bullet having a true caliber of only .36, though it was, and still is, called .38. The first revolver for it was brought out in March 1876.

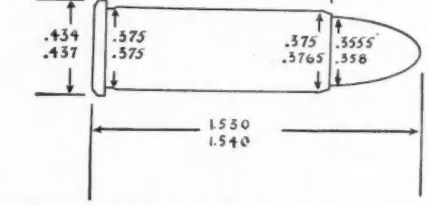
Using a cartridge case of the same diameter as that for the .38 Short Colt—that is, approximately .380—the Colt Company made an inside lubricated cartridge. The bullet weighed 150 grains and had a diameter of .359 inch, which was smaller than the .360 bore of the revolver it was used in. The bullet had a hollow base to make it expand and take the rifling, and it used a charge of 18 grains of black powder. As it covered more of the bullet, the case had to be made larger than in the outside lubricated Short Colt, and it was called the .38 Long Colt.

In 1889 the Government adopted the .38 Colt double-action revolver, first for the Navy, then for the Army, using the .38 Long Colt. The system of having the bullet smaller than the barrel, with a hollow base to expand it did not work well, so the barrel diameter was eventually reduced to .357 inch. The cartridge had an excellent reputation until it was put to use in the Philippines in 1899. Then it was found that the .38-caliber bullet lacked stopping power, and a number of old .45-caliber revolvers were issued for use in the Islands.

The genesis of the .38 Special is described by McHenry & Roper in Smith & Wesson Hand Guns *as follows:*

"Failure of the .38 Long Colt cartridge in the Philippines led Daniel B. Wesson to design a better one, and the result was the .38 Smith & Wesson Special. It had a powder weight of 21 grains compared with 18 in the regulation cartridge, and the bullet gained 8 grains for a total of 158 simply by filling in the hollow base. The new cartridge was more accurate for target work than the .38 Long Colt and was heavy enough for ordinary police work, but the War Department had learned its lesson and refused to issue handguns to soldiers of less than .45 caliber. An added refinement to the cartridge was contributed by the Colt Company in the form of a blunt nosed bullet of equal weight. It was known as the .38 Colt Special and experience proved it to be a better man-stopper than the S&W Special while sacrificing no accuracy for the change in shape.

It should be noted that the .38 Special, while it is a longer and more powerful cartridge than the .38 S&W, has a case



Critical dimensions of the .38 special cartridge

that is smaller in diameter, so that the two cannot be used in the same arm. However, either the .38 Short Colt or the .38 Long Colt can be fired in guns chambered for the .38 Special.—J.S.H.

Handloading for handguns generally is limited to one specific purpose—to obtain the most accurate, most economical and most pleasant to shoot load that can be found. With the possible exception of the 230-grain jacketed bullet in the .45 A.C.P., practically all handloading is limited to cast and lubricated lead-alloy bullets. In handgun handloads we do not have to be concerned about an extremely well-shaped bullet as trajectory in flight is not important, because handgun bullets are used normally (except in hunting loads) at ranges up to 50 yards only. It is true that slow handgun bullets are affected by wind, but the importance of accuracy overshadows any other specific requirement in handgun handloads since they are strictly target loads. For that reason bullets for handgun handloads are usually selected on accuracy merit alone and, oddly enough, the finest accuracy seems to be obtained with the poorest shaped bullets, namely, the flat-nose cylindrical-shaped wadcutters or the so-called semi-wadcutter having a small rounded or tapered point forward of a sharp shoulder and cylindrical bore and groove-riding section.

Actually it is somewhat of a problem to try recommending any new loads for handguns. True, there are many new developments in bullet design, but generally the most accurate and most popular bullets for a specific caliber come within limited weight requirements, and with light powder charges for target loads there is no need to be overly concerned about exact seating depth. Furthermore, most lead-alloy bullets are

made to have a positive seating depth, which is down to the crimping groove. Even powders we used ten years ago are still the popular brands today, with the possible exception of IMR 5066. Since bullets we used a number of years ago are almost identical with those that are most popular today, probably the best loading data we can offer is that resulting from an extensive series of machine-rest shooting tests to determine the most consistent performing loads up to 50 yards.

For the results given here two different machine rests were used—the Lewis and Potter. The Colt Officers' Model was used for most of the .38 Special groups and all bullets were sized .358 inch. In the test we used all different makes of small pistol primers and different makes of cases. The bullet alloy was left constant, being a good mixture of two parts tin, two parts antimony and 96 parts lead. Various types of bullet lubricants were used, but we could not find enough difference in various makes to single out any one of them. Bullets in all handloads were uniformly seated with a moderately heavy crimp in the regular crimping grooves on the bullets. Cartridge cases were trimmed to a uniform length, as we learned in the tests that variations in case length definitely cause a variation in the amount of crimp for each individual cartridge, and that in turn affects accuracy. The actual length of the cases is not too important, so long as they are uniformly the same length.

Of interest in the tables may be the performance of selected or best factory loads obtainable, and early in the test we learned that the standard gauge for accuracy was the .38 Special midrange wadcutter. Never in the tests were we able to produce consistent shooting handloads with the type of bullets we had available, at least to equal the performance of the Western factory .38 Special midrange wadcutter. No doubt more extensive tests with other bullet designs, singling out the best and continuing the tests further, would have given even better and more consistent performance.

Before starting the machine-rest shooting we had eliminated a number of different bullets, bullet diameters and other variations. In the selection of components the most important point noted was the selection of the cartridge case for use with the deep-seated wadcutter bullets.

Most all .38 Special cases have identification or bullet seating cannelures rolled into the case itself. Even when the case is full-length sized, all the crimp is not removed from the inside, and when the bullet is seated down past the cannelures the base is distorted and accuracy will be affected. In fact, it is far more important to have perfect undeformed cases than to avoid some mutilation or distortion at the point of the bullet, especially in handgun cartridges used at short ranges. Verifying this is the known fact that a number of hollow-pointed handgun bullets shoot better than bullets of the same design without a hollow cavity in the nose. Furthermore, good wadcutter or semi-wadcutter type bullets seem even more accurate than the conventional and standard round-nose bullets in .38 Special caliber.

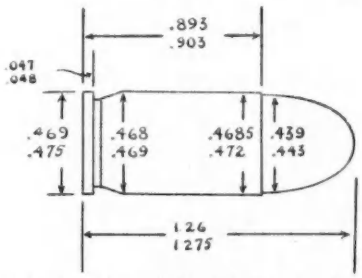
Our selection of bullets such as the Hensley No. 50 wadcutter with three lubricating grooves and the No. 39 Hensley 158-grain round nose does not mean they are the only accurate bullets but that they are typical examples of accurate bullets. Other bullet-mould makers such as Cramer, Ideal and Modern-Bond have bullets of similar design, so a test of all various makes and shapes would be an almost endless experiment. Even the test of various types of alloys would only add confusion. However, there is one other alloy we found to be extremely good, one part tin to sixteen parts lead.

Possibly groups made by Colt revolvers may have been reduced a little by sizing the bullets down to .357-inch or even .356-inch diameter. However, limited tests indicated that our standard .358-inch diameter would be adequate and we could use the same sizing and loading setup for all loads to be used in both Colt and Smith & Wesson guns. The bullets were intended to be a snug, uniform fit inside the expanded cases, which was accomplished by using a .357-inch diameter expander. Handgun bullets should be retained in the cartridge cases almost exclusively by the use of a proper, uniform crimp, but they should not be sized so small as to be a loose fit inside the cases.

A number of the group tests consisted of trying loads made with the various tools such as the Star, the old Buchanan (now PESCO) and the Pacific. We could not denote enough difference in performance on the machine rest to single out any outstanding reloading tool combinations.

There were no serious leading problems in any handgun with any lubricant, so for practically all the shooting we standardized on a convenient mixture of equal parts beeswax and paraffin to which was added enough heavy oil or grease for a tough lubricant. The original mixture consisted of equal parts paraffin, beeswax and Vaseline. This lubricant, after being applied to bullets, has remained firmly in place without any indications of melting, at least not enough to contaminate the powder during the hot summer months.

As handguns are used to only a limited extent for game shooting, there are not too many really good combinations to be recommended. For hunting the semi-wadcutter type of bullet is outstanding. The round nose is one of the poorest for game killing, because of its lack of shocking power. The wadcutters, although quite accurate, are more affected by wind so a happy compromise is reached by using the semi-wadcutter, often with a hollow point. There are several good bullet designs, such as the Keith and those developed by Gordon Boser, Ray C. Thompson and others. Usually for hunting loads Hercules Unique is the best powder. Boser's loads of 4.9 and 5.2 grains with Thompson bullets are very accurate, and pressures are within safe limits for any good .38 Special. With a 150-grain semi-wadcutter bullet having a seating depth of .39 inch, a charge of 5.2-grains Hercules Unique gives 995 foot-seconds velocity. Loads of Unique up to 5.4 and even to 5.8 grains have been used, but they are



Critical dimensions of the .45-caliber cartridge

very heavy and frequently inaccurate. They should be attempted or approached only in the heaviest handguns.

Hercules No. 2400 powder has sometimes been used in the .38 Special with hunting-type bullets, and we have used up to 12.5 grains, but it seems to be a somewhat erratic load. According to Phil Sharpe in *Complete Guide To Handloading*, a charge of 12 grains, with his 146-grain Sharpe semi-wadcutter bullet having .34-inch seating depth, gives 1200 foot-seconds velocity at 21,800 pounds pressure. This powder is at its best in the more powerful loads permissible in the

MACHINE REST, 50-YARD, 10-SHOT GROUPS

.38 Special Factory Loads

Bullet	Weight (grains)	Type	No. Groups	Min. Group (inches)	Max. Group (inches)	Average (inches)
Western	146	Midrange Wadcutter	11	1.15	2.92	2.29
Peters	146	Police Match Wadcutter	4	2.18	3.53	2.92
Remington	158	Target Master RN	6	2.20	3.26	2.80
Winchester	148	Wadcutter	5	2.62	3.46	2.92
Peters	110	Hi-Way Master Metal Penetrating	5	2.98	4.73	3.70

.38 Special Handloads

Bullet	Wght. (grs.)	Sized	Type	Powder	Charge (grs.)	No. Groups	Min. Group (ins.)	Max. Group (ins.)	Avrge. (ins.)
Hensley 50	146	.358	Wadcutter	No. 5	4.0	13	1.50	4.00	2.78
50	146	.358	Wadcutter	Bullseye	3.0	10	2.08	3.30	2.47
50	146	.358	Wadcutter	No. 6	3.6	6	2.96	3.60	3.14
50	146	.358	Wadcutter	Bullseye	2.7	14	1.91	4.05	3.21
39	158	.358	R'nd Nose	Bullseye	3.0	14	1.91	4.05	3.22
39	158	.358	R'nd Nose	No. 5	3.9	9	2.16	4.12	3.45
39	158	.358	R'nd Nose	No. 6	3.6	4	2.40	3.63	3.21

Gordon Boser's Favorite Handloads

Bullet	Weight (grs.)	Dia. (in.)	Type	Seating Depth (inch)	Powder	Charge (grains)
Ideal 358432	155	.357	Semi-wadcutter	.400	3.8	No. 5066
Ideal 358432	155	.357	Semi-wadcutter	.400	2.7	No. 6
Ideal-Boser 358453	155	.357	Semi-wadcutter	.400	3.8	No. 6
Ideal-Boser 358453	155	.357	Semi-wadcutter	.400	4.3	No. 5066
Ideal 358311	158	.357	Round Nose	.35	3.6	No. 6
Ideal 358311	158	.357	Round Nose	.35	4.5	No. 5066
Ideal 358311	158	.357	Round Nose	.35	5.0	No. 5
*Thompson 358150	*150	.357	Hollow Point	.378	5.2	Unique
Thompson 358160	160	.357	Hollow Point	.433	4.9	Unique

* Boser states the 150-grain Hollow Point is the most accurate of all .38 Special hunting loads. The Thompson bullets in .38 Special, .357 Magnum and .44 Special calibers will be covered in an article by Gordon Boser soon.

MACHINE REST, 50-YARD, 10-SHOT GROUPS

.45 A. C. P. Factory Loads

Bullet	Weight (grains)	Type	No. Groups	Min. Group (inches)	Max. Group (inches)	Average (inches)
Western	230	Match	6	4.78	6.80	5.36
Remington	230	Target Master	9	3.98	6.07	4.98
Peters	230	Police Match	13	3.10	7.70	4.60
Western	230	Metal Piercing	3	5.18	6.80	5.98
FA 1936	230	Service	20	3.67	8.85	6.02

.45 A. C. P. Handloads

Bullet	Weight (grs.)	Dia. (in.)	Type	Powder	Charge (grs.)	No. Groups	Min. Group (ins.)	Max. Group (ins.)	Avera (ins.
Hensley 68	200	.452	Semi-wadcutter	No. 5	4.7	19	3.73	7.20	5.69
Hensley 68	200	.452	Semi-wadcutter	No. 5	4.9	6	3.39	4.08	3.78
FA Service	230	.451	M. C.	No. 5	4.9	9	3.45	9.42	5.54

50-YARD, TWO-HAND REST POSITION, AIMING WITH SIGHTS

10-Shot Groups

Bullet	Weight (grs.)	Dia. (inch)	Type	Charge (grains)	Powder	Grou Dia. (inche
Hensley 68	200	.452	Semi-wadcutter	No. 5	4.9	5.3
Hensley 68	200	.452	Semi-wadcutter	No. 5	4.9	4.7
Hensley 68	200	.452	Semi-wadcutter	No. 5	4.9	5.6
Hensley S-68	207	.452	Semi-wadcutter	No. 5	4.9	3.8
Hensley S-68	207	.452	Semi-wadcutter	No. 5	4.9	4.8
Hensley S-68	207	.452	Semi-wadcutter	Bullseye	4.0	4.1
Hensley S-68	207	.452	Semi-wadcutter	Bullseye	4.0	4.7
Hensley S-68	207	.452	Semi-wadcutter	Bullseye	4.0	4.4
Hensley S-68	207	.452	Semi-wadcutter	Bullseye	4.0	3.4
FA 1936	230		M. C. Service			5.7
FA 1936	230		M. C. Service			6.2
FA 1936	230		M. C. Service			5.5
FA 1936	230		M. C. Service			4.9

.357 Magnum and the heavier caliber such as the .44 Special.

Frequently light bullets are requested for the .38 Special, but we have never found any of them which give really dependable accuracy, and even the heavier bullets of 146 to 158 grains give best results for intermediate light-charge 25-yard shooting. One of the favorite loads with the No. 50 Hensley bullet is 2.7 grains of Bullseye or 2.8 to 3 grains of Pistol Powder No. 6. The No. 5, or the replacement powder No. 5066, seemingly does not do as well with the lighter charges. Since we have not had an opportunity to develop loads for No. 5066 powder, all we can suggest is that unless extreme maximum loads are considered No. 5066 can be used charge-for-charge in place of the older No. 5. It seems to measure practically the same as the old No. 5.

THE .45 A.C.P. CARTRIDGE

About 1900 a military model of the Browning automatic pistol in .38 caliber was offered to the government by Colt. The cartridge designed for the gun was the well-known .38 A.C.P. However, experience in the Philippine campaign had convinced the Army that a .38 did not have sufficient stopping power, and the authorities laid down the requirement that any pistol submitted for adoption must be of .45 caliber. This led to the design in 1905 of a .45-caliber automatic pistol and a cartridge for it. The Army tests of 1907 resulted in a number of changes in the pistol, which in its improved form was adopted in 1911. The cartridge for this gun was the present .45 A.C.P., having a 230-grain bullet driven at 800 foot-seconds velocity.—J.S.H.

Loading the .45 A.C.P., with few exceptions, requires about the same procedure as for the .38 Special. There seems to be a very limited number of good bullets for use with the .45 pistol, and because of the autoloading mechanism which was designed for moderate pressure loads, it is not intended for use with heavier or intermediate hunting-type loads. Therefore, practically all loading data given here is for target use in which the important requirement is to develop accurate midrange loads having the least recoil possible. The reason, of course, is that shooting the .45 to obtain good groups and scores presents a rather baffling problem so the lightest load which will operate the slide reliably is the best to consider.

In addition to the light powder charge, perhaps one of the most important considerations, when working up good loads for the .45, is to be sure the cartridge cases are all one length. The reason is not for uniform crimping, as the case is not crimped over the bullet. The importance of the case length has to do with proper headspacing and proper fit in the chamber. Cases too long for the chamber will cause malfunctioning as the slide will not fully close. Cases too short for the chamber will cause hangfires or misfires because the mouth of the case itself rests against the shoulder and chamber of the .45 A.C.P. barrel, and the length of the case governs correct headspacing. Even though loads in cases too short for the chamber can frequently be fired, the condition, because of excessive headspace, is harmful to the slide, particularly with heavy loads. The maximum case length for the .45 pistol cartridge is .898 inch.

Since crimping the mouth to hold the bullet in the .45 cartridge case is not possible, the case must be sized adequately to make the bullet a firm fit inside. In some sizing dies for the .45 A.C.P. cartridge, there is no expanding except a slight beveling of the case mouth to facilitate starting the bullet. In the final seating operation the case mouth is merely closed in along the sides of the bullet without any actual crimping being done. Usually cases sized to *(Continued on page 4*

International Rapid Fire

BY PHIL ROETTINGER

THERE IS NOTHING particularly mysterious about the Olympic type of rapid-fire pistol match and there is nothing about it to prevent American shooters from ranking well up in international competition. Americans are generally recognized to be among the best pistol shots in the world and the top men in this country seem to have better match temperament than most foreign competitors. The three top pistolmen of the United States—Reeves, Benner and Walsh—have a steady, phlegmatic disposition which is known to be valuable for the toughest competition. The temperament of these men, like many other ranking shots, is definitely superior to that of southern Europeans and Latin Americans. Neither do Americans lack good equipment, as no one could complain that guns which have made astronomically high national records are shoddy. Why, then, has only one American shooter, Sgt. Henry N. Bailey, USMC, in 1924, won an international rapid-fire title?

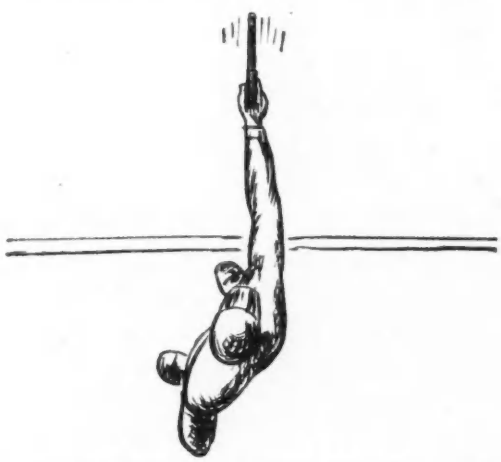
First, let us examine the international rapid-fire match and see just what it consists of. The match is fired on a twenty-five meter range (roughly twenty-seven yards). The targets are silhouettes shaped somewhat like an armless man, with scoring rings around a ten-ring in the middle of the all-black figure. These targets are placed in banks of five and usually are turned manually or automatically. The competitor takes his place on the line, either inside or out of a covered firing point, his pistol loaded with a minimum of five rounds. Unlike American matches, the international rapid fire permits loading more than the usual number of rounds so that the competitor can clear the gun in case of a misfire and continue shooting his string. The targets are facing the competitor as he assumes a position with arm and pistol pointing toward the ground at a forty-five degree angle. When he is ready to fire he signals to the officials. The targets turn away immediately and any time within five seconds turn toward him again. As the targets turn, he must raise his pistol and fire one shot at each of the five silhouettes. The first two strings must be fired in eight seconds each, the next two in six seconds each, and the last two in four seconds each. The procedure is repeated to make a sixty-shot match. Between strings in the Olympic match last summer pink-cheeked RAF lads ran forward, placed spotters in the shot holes, scored the targets, and pasted up.

In international rapid-fire competition the rules permit a practice string of five shots to be fired before each thirty-shot sequence in any time limit of the shooter's choice. Also, unlike American rules, an alibi for one misfire is permitted in each thirty shots. If another misfire should occur the shooter has to clear it and attempt to finish the string. Scoring is accomplished first by the total number of hits on the silhouettes regardless of the scoring rings touched, the possible being sixty. To break ties, the numerical value of the scoring rings in which the shots hit are used, the possible then being 600. Another difference from our rules is that shots fired while the targets are turning which make elongated holes greater than twice the diameter of the bullet (.44 inch) are counted as misses. This rule was my own undoing in the '48 Olympics as one of my shots was longer than the minimum and scored as a miss. (Roettinger was twenty-third with 59 hits and 554 points. Had the miss been a hit, he would have placed fourth.—ED.)

Perhaps not the most important but certainly a serious failing in the rapid-fire bobber match is present American equipment. Excellent as the popular .22-caliber semiautomatics shooting super-accurate long rifle ammunition are for a National Match Course event, they are simply not adapted to international rapid-fire competition. All of the American Olympic rapid-fire team members fired good scores at one time or another in the matches last year but when they were up against other shooters who had arms and ammunition designed for the match it was a different story. Let us look at what we found to be ideal equipment for this type of competition so that future teams will not be handicapped.

One of the primary requirements of a rapid-fire pistol for use in the twenty-five meter bobber matches is that it should be chambered for or adapted to the .22 short cartridge. Most Americans pooh-pooh the use of shorts, even calling the long rifle a pip-squeak, but when a short and a long are fired from a similar gun the difference in recoil is amazing. At the moment I am experimenting with the lowly gallery short which has the least recoil of all. By shorts I do not mean hi-speed shorts, since they definitely have more recoil than the standard short. While it is questionable whether or not a compensator such as is utilized by many Europeans is necessary, experiments should be made with one even with shorts to determine the benefit to be derived from such a device.

Given a short-shooting handgun, the next most important feature is length and balance. For most American shooting a long-barrel, slightly muzzle-heavy arm is desirable, but for rapid-fire work involving much lateral and vertical movement



IN THE OLYMPICS LAST YEAR AMERICAN SHOOTERS FOUND THEMSELVES STRANGERS TO ONE TYPE OF PISTOL MATCH

of the weapon a shorter gun would seem more desirable so that shooting it would closely simulate pointing the finger. Since the arm must be pointed down at a forty-five degree angle initially, and after being levelled at the first target it must be moved horizontally, there is much tendency for muzzle whip in both directions. A short stubby barrel will minimize the whip. It is true that some of the better foreign competitors use the long-barrel Walther Olympia with a compensator, but in my opinion they are needlessly handicapping themselves with extra length. After all, the problem of a rapid-fire match at twenty-five meters is not accuracy but how to attain easy maneuverability of the gun. The weight of the gun should be sufficient to control recoil and the weapon should be so balanced that a sharp let-off will not unduly disturb the aim. For the same reason trigger pull should be kept at the minimum possible for safety since there is no time for slow, heavy squeezes in the four-second sequence. Saenz Valiente of Argentina fires a Colt Woodsman with something like a three-quarter pound pull, which is probably a bit too light.

Third, American sighting equipment of black front and rear sights leaves something to be desired in bobber matches since black sights blend in with the black silhouette at which the shooter is aiming, though excellent scores have been fired with standard sights. Most foreign shooters use white front sights and either white or red rear sights but even these can be improved upon since they are somewhat confusing. A sight like the one in the accompanying illustration should do the trick. It would be better not to use such a sight in a covered firing point, but if black sights are used, the covered point is better.

Stocks or grips for the pistol are just as important in rapid fire as they are in conventional matches. They should fit in such a manner that after the weapon comes up from the 'lowered pistol' position for the initial shot, the sights will come into almost exact alignment. Valuable time would be gained in obtaining a quick bead for the first shot, leaving more time for the remaining shots. Beginners usually take at least a second for the first shot and three seconds may be adequate for the other four shots in the four-second string, but it leaves no time for any sighting or squeezing difficulties which may be encountered.

A shooter possessing the type of equipment we have been discussing can feel that he is on a par with the best of his competition and forget that angle. Next, he must practice to become completely familiar with the course and time limits so that he can fire each string with no thought to the limit involved. The first is of course the eight-second string, which he should shoot deliberately in an attempt to secure nearly all tens. He should not shoot as deliberately as I did in the Olympics, however, misjudging the time in the effort to get a possible in the eight-second sequence, but he should take care in aiming and not just try to hit the silhouette anyplace. Even in the six-second string, he can give a thought to the score but not nearly as much as before. The six-second time limit does not allow deliberateness in shooting and the shooter should not take chances in running over it. In the four-second string, which should be avoided at first by beginners, the shooter should strive only for hits on the silhouette, regardless of value. After considerable practice the shooter will get good scores even in the four-second sequence.

The position used in shooting the bobbers should be much the same as the regular position for American competition, except for the difference in the preparatory location of the pistol. As the arm is held toward the ground, check the preliminary sight alignment of the piece, then glance to the center of the target. As the targets turn away, keep on the alert for the slightest movement which will preface their being faced toward you. At the movement, raise the arm and pistol and sight on the first target, firing the shot as quickly as possible without jerking. Do not try to whip the arm up too quickly as it will inevitably swing past the center of the silhouette. Soon the right amount of movement required to hit center every time will become apparent. After the first shot is fired, move the gun laterally to sight on each of the other silhouettes, firing one shot at each. Again, do not move too fast or too jerkily or a shot will get away between targets.

The beginner should strive first for all hits, and when it becomes a habit to be free of misses, he can then try for a good numerical score. It is essential that regulation time limits be employed and that fast turning targets be used, because a false sense of timing will result if not.

In the Olympic tryouts it became apparent that the deciding factor for selection of team members would be the number of hits, and that anybody who secured a possible of all hits, regardless of score, would make the team. In actual competition in England, however, it was equally apparent that only a very

White handgun sights similar to these are needed for bobber shooting

high score, with, of course, all hits, would place the shooter among the winners. In international competition nothing less than a 575 can be considered as having a good chance to win. In the 1948 Olympics the winner, Karoly Takacs of Hungary, had a score of 580. The first 22 competitors had all hits.

One of the main handicaps in international rapid-fire competition to the American shooter is the fact that he gets little or no competitive experience in that type of shooting. And experience is very necessary for a good psychological approach to the match. It can be imagined how a foreigner would feel if he were to shoot the National Match Course with a .45 auto, even if he were top-notch in international rapid fire.

Incidentally, it might be wise to warn the future competitor that in international competition there is much more spectator interest than at our matches. We are accustomed to quiet, orderly behavior from the spectators. Foreigners have the habit of cheering and applauding a good string, which can be disconcerting although the writer's strings did not merit enough applause for him to tell.

Amerikanische Schuetzenfest

By Phil Sharpe

FOR MORE THAN TWENTY years the annual Big Event in my life as a gun bug has been the National Matches. When the war clouds obscured Camp Perry in 1948, four old Camp Perry boys got together to plan a shooting spree of their own. It turned out to be one of the biggest little *schuetzenfests* of the day.

Tom Florich of New York City had been loading assorted ammunition for pleasure and for his match shooting for a third of a century. A. J. E. (Bert) Shay of Wurtsboro, New York, tops even this. The author got into the game about 1916. Young Tom Florich, Jr. cut his teeth on a sawed-off .22 in the junior matches at Perry many years ago.

These enthusiastic handloaders long ago ceased to count the ammunition they had assembled. They found it becoming too routine. To broaden their interest in the sport, they began to experiment with wildcats, and that class Tom Florich calls 'heathen rifles'—unique foreign weapons. If it was possible to step out and buy the ammunition for them, there wasn't a great deal interest in them.

Early in the summer of 1948 plans were formulated for the Big Little Shoot'. With plenty of calibers available to choose from, some two dozen were picked. Some were wildcats; some were rare American oddities; some were interesting 'heathens'. These were set aside and Florich, Shay and some of their nearby conspirators set about the task of producing cartridge cases to fit, importing bullets and cases, making special bullet dies for others, testing, discarding, developing—all of the things which help to keep a fellow's mind away from business, rising prices, war, possible depressions, and other prosaic worries.

There are so many wildcats available to shooters that it hardly seems necessary to add to the confusion, but gun bugs are always gun bugs, and something new had to be added to the kitty. Thus was another wildcat developed, but not with the idea of putting it on the market. The designers did not hope to make a *better* wildcat—they just wanted to prove to themselves that they could, using the technical and scientific approach of a 3-year-old boy with a new toy and a hammer, achieve results equal to that of many wildcat designers who so tackle the subject in the small-boy manner.

Thus was born the .22 Orphan.

Partners in crime in this development were Florich, Shay, Carl Steger, a gun bug and skilled machinist and toolmaker of New York City, and Dr. Carl Sherwin of Scarsdale, New York. Later, when the job was done, the Orphan Club was formed with this writer ordering a .22 Orphan.

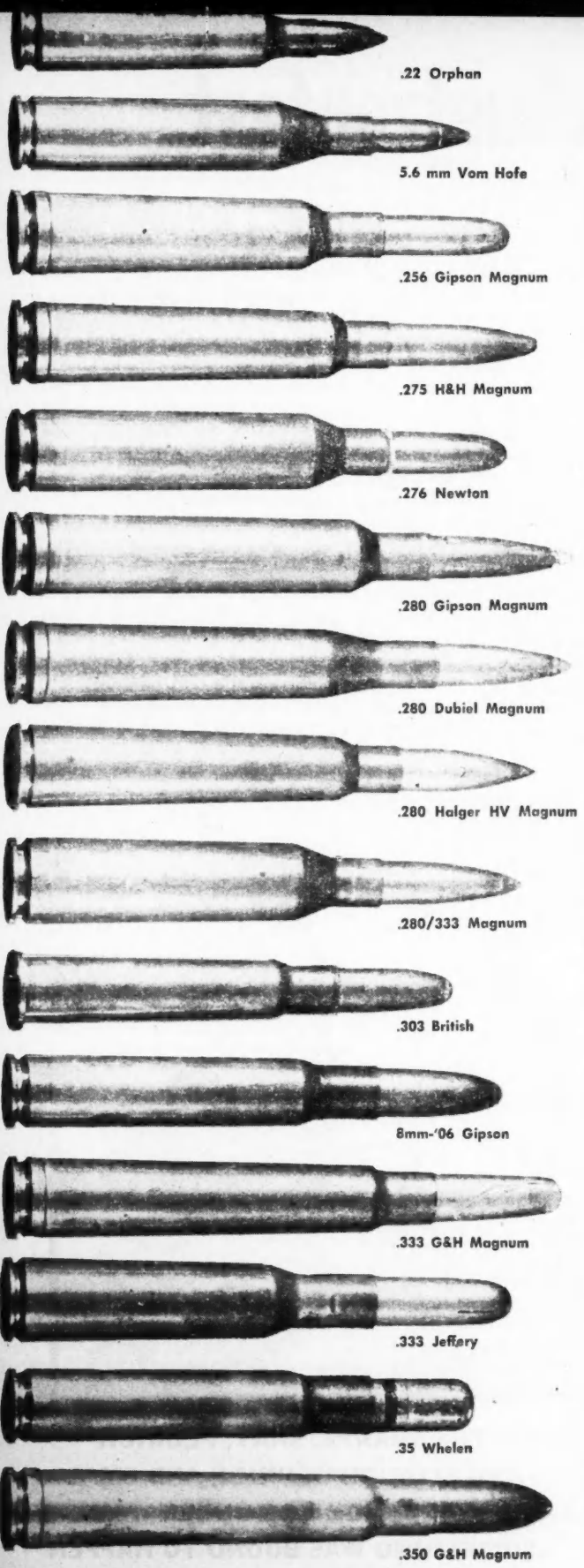
Buhmiller supplied five target-weight barrel blanks, .224 groove diameter, 14-inch twist. Steger did the chambering and fitting. Florich and Shay were in charge of the ammunition department. They had a plentiful supply of .276 Pedersen brass so the evil eye fell on that. The case is good, strong, of modern design. With amazing intelligence they decided to leave it alone—just neck it to .22. This proved to be wise—the Orphan will shoot.

Finally came the Big Day. Early one September afternoon a car pulled into my yard in Pennsylvania and the reunion was on. The remainder of the day and evening was spent in planning the routine with the behind-the-scenes preparation that makes an NRA match run so smoothly. It was long after midnight when four tired fellers hit the sack.

The next morning four cooks did the usual and then adjourned to my range house. I was vice-president-in-charge-of-the-adding machines, calculators and chronograph. Tom was vice-president-in-charge-of-the-tally-board, Bert was vice-president-in-charge-of-the-shooting-bench, and Tom, Jr. was vice-president-in-charge-of-the-loading-room-and-targets. The photoelectric chronograph screens were positioned, the red danger flag was hoisted, and the noise started.

Now it comes to pass that I have chronographed many a load after painful preparation. For such laboratory-grade tests I weigh bullets, segregating them to the nearest 1/10th grain, inspect and pick perfect cases, bullets and primers, and weigh powder charges painfully to .0015 grain—a single kernel of IMR powder. Florich and Shay demanded a different approach. They wanted to see what *average* handloads would do. Bullets used were run-of-the-mill, and powder charges were all measured with B&M and Ideal micrometer measures. Only a few experimental loads assembled on the scene had precision weighed charges. The uniformity was amazing—on a par with standard commercial factory loads as far as variations were concerned, and many loads tested

WHEN THE SHARPE, SHAY, FLORICH AND FLORICH REUNION AND SMALL ARMS EXPEDITION GOT UNDER WAY, SOMETHING WAS BOUND TO HAPPEN



were far more uniform than commercial factory loads.

Without a pause and with only time out for lunch at noon, the firing continued despite a light rain. Data sheets piled up. The man on the gun fired with monotonous regularity, taking care to keep his guns from overheating (a hot barrel shows a velocity drop). The chronograph record of bullet time between the photo-screens separated by 100 feet was called audibly and repeated by the tally sheet man. "Zero-three eight-four-two." As it was being repeated, and recorded, the tarage tables and charts were put into action.

Firing continued until dark. Some loads were fired for groups while velocity was being recorded. Only then was there a pause while targets were changed and load notes made.

It was 7:30 P.M. the next day when the last special load was fired. We breathed a sigh of satisfied relief, and gathered up the paper results for another evening of round table session.

At almost 3 A.M. the paper work was finished, and a tired quartet retired to sleep a little later than usual. The following forenoon was spent with scattered shooting of some of the Sharpe collection, not included in the tests. Then came the carefully organized job of packing the twenty guns, leftover ammunition, components, special dies, and miscellaneous equipment into the car. The noon hour had passed when the visitors started the 300-mile trek back to their New York homes, tired but happy. The four day session had included about six days of firing packed into two days. Some 500 shots had been chronographed, covering more than 70 loads in 21 calibers. In those two hectic days, the band of hardy pioneers had absorbed approximately 8000 foot-pounds of free recoil. My range backstop (still standing) had taken over a million foot-pounds of striking energy. The wastebaskets were piled high with used adding machine and calculator tape.

To give a comprehensive account of the results achieved in this test program would be impossible. The guns and calibers were chosen because loading data was not available. Florich and Shay had developed loads from scratch—the hard way, experimenting with powders, working up loads slowly and discarding those which appeared to be too hot or which would not shoot. As a result, only basic data was obtained, and for many months reams of correspondence have been traveling back and forth—new ideas, new loads, to be tested in a more lengthy session late in 1949. Here, however, are some of the loads and velocities.

In the .22 Orphan, it was found that IMR 4320 and IMR 4895 (lot 27277) performed best with bullet weights from 40 to 60 grains. With 4320 and the 40-grain bullet, 36.2 grains gave a velocity of 3820 feet per second. With a 55-grain bullet, 32.1 grains gave 3266. With the 60-grain bullet, 31.2 grains of 4895 recorded velocity of 3182 feet per second.

The 5.6 x 61mm. Vom Hofe proved interesting. With 44 grains of IMR 4350 and a 70-grain bullet, velocity was 2740. The same bullet with 37.5 grains of 4895 recorded 2769. With a 77-grain bullet, 53 grains of 4350 clocked 3388 and 54.5 grains upped this to 3482. With a 90-grain bullet 51.5 grains gave 3189 feet.

In the .256 Newton, using original Newton wire-point 130 grain bullets, 51 grains of 4350 gave 2950 feet per second. The same charge with Remington 150-grain bullets recorded 2847.

In the 7 x 64mm. Brenneke, 53 grains of 4350 clocked a velocity of 2577 with Remington 175-grain bullets. Pressures were high—slight sticking of cases. A 52-grain charge dropped velocity to 2510 and was better. Then came the great experiment—we had heard of some chaps using .50 caliber machine gun powder—so we tried some—with fear

and misgivings. Using the same 175-grain bullet a charge of 48 grains was weighed. Primers did not lose their original round contour; firing pin mark was deep; velocity was only 1681. A 54-grain charge upped this to 2004, and 56 grains all we could get into the case (compressed in bullet seating) gave no indications of pressure and only 2123 feet per second. Who said .50-caliber powder was good for rifle loads?

The .280 Gipson Super Magnum was tried with 82.5 grains of .50-caliber machine gun powder and the 180-grain bullet. Recorded velocity was 3048, indicating possibilities of this powder with these very large capacity cases. With 4350 powder, 70 grains gave 3072.

With the .275 H&H Magnum, 56.5 grains of 4350 and a 180-grain bullet recorded 2672 and 59 grains with the 160-grain bullet ran 2824.

Next came the .280 Halger Magnum. Halger published his ballistics as 3500 feet per second with the 143-grain bullet.

All of these guns, plus three gunbugs, traveled in one car. Total value of rifles tested was estimated at $5,000. Wall is part of Sharpe's shooting house

In 1945 the writer obtained records from the RWS plant in Germany—they loaded his ammunition until he began overadvertising it—and found that factory tests showed a velocity of 2953. Using 56 grains of 4064 we obtained a reading of 2899 feet. The advertised Halger velocity for the 180-grain bullet was 3043. RWS records show 2625 and they rated the bullet at 173 grains. Actual weight of these bullets ran 178.7 grains. Using a 180-grain bullet, 59 grains of 4350 gave 2766 feet—higher velocity than the original loads, but still far under claims.

With the .280 Dubiel Magnum, 64 grains of 4350 gave the 180-grain bullet 2840 while 65.5 grains with the 160-grain bullet averaged 2970. This last bullet was made by Barnes. The same combination with Kynoch bullets clocked 2897.

In the .276 Newton, 65.5 grains of 4350 with the Remington 175-grain bullet gave a chronograph reading of 2776.

A Gipson wildcat, the big .333 Jeffery necked to .280, was tried with 65.5 grains 4350 and 160-grain Barnes bullet and gave 2899 feet.

One of the loads tested in the .30-'06 was the Cramer 218-grain gas-check bullet with 33.5 grains 4895—a good shooting load. This recorded 1785 with very low pressures.

A Merkel double rifle for the 8 x 60mm. rimmed was then given the works. IMR 4064 to the tune of 54 grains with a 200-grain Barnes bullet gave 2661 feet per second. Pressures did not appear high, but it was rough on the shoulder.

Gipson's interesting 8mm.-'06 next hit the shooting bench. This is nothing but the .30-'06 with the neck expanded to hold 8-mm. bullets. The heavy MGS 210-grain bullets were tried with 57 grains 4350; velocity was 2456.

Then came the .333 Jeffery, the famous British killer. Using Kynoch cases, primers and their 300-grain bullet with 64 grains 4350 we obtained 2296 feet per second. The same cases and primers with 68.5 grains of powder and 250-grain Barnes bullets showed 2527 f.s.

For comparison we tried the .333 G&H Magnum. Winchester 120 primers and 70.5 grains 4350 with 250-grain Barnes bullets gave 2629 feet. The same combination except Kynoch cases and primers gave only 2470. With Winchester primers 73.5 grains gave 2667. With 300-grain Kynoch bullets, 66.5 grains gave 2315 feet.

In the .35 Whelen the excellent-shooting 272-grain Cramer gas check was tried with 36.2 grains 4320. Velocity was 1484.

The .35 G&H Magnum with 75 grains 4350 and 275-grain

Burt Shay fires a 'heathen' while Tom Florich records the chronograph reading. Shooters were rotated during the two strenuous days of testing loads

bullets recorded a velocity of 2555 feet per second.

In the .400 Whelen, Florich's favorite big-game loads were tried. Using Western 300-grain .405 Winchester bullets in front of 60 grains 3031, recorded velocity was 2299. His light load with a 348-grain gas check and 35 grains of 4198 gave 1561 feet per second.

The above samples of the many loads tested have been the basis of lengthy argument. They suggested ideas for the use of other loads, powders and bullets. Three days after the session broke up, work had been started on the assembly of another test case of ammunition for the 1949 gathering.

In the list of guns tested, you will note '.276 Newton'. Yes, there *was* such a caliber. Newton showed one of these to the writer when I visited him in the late 1920's. It is believed that he made less than a half-dozen. It was replaced by his .280 Newton. The original blueprints came into Florich's hands and he had a gun built.

There is nothing like *knowing* what a gun will do. In quoting the above velocity figures, velocities given are instrumental at 60 feet. No attempt has been made to translate these into a fictitious muzzle velocity. Some loads were below expectations, but we had the satisfaction of knowing the truth. As Tom, Jr., finished a chronograph run with one wildcat which fell far below the maker's claims, he remarked, "There goes three hundred bucks!"

Anyway, the Sharpe, Shay, Florich and Florich Reunion and Laboratory Research Small Arms Expedition was a huge success. Put another way, a good time was had by all. ♦ ♦ ♦

HANDGUN HANDLOADS

(Continued from page 34)

.470-inch outside diameter will hold cast bullets sized to .452 inch. When the case mouth is not beveled before seating the bullet, the mouth should be chamfered very slightly on the inside to prevent shaving lead. This is particularly true when using the most popular form of lead-alloy bullet, the semi-wadcutter. The semi-wadcutter is unquestionably one of the most accurate forms of bullet for the .45 A.C.P. when loaded with moderate charges or just enough to operate the slide mechanism. But as the bullets have parallel sides up to the sharp shoulder, any lead shaving forward of the case mouth will only result in a tendency of the bullets to malfunction—either in feeding from the magazine or in interfering with proper seating of the cartridge in the chamber. Lead shavings are probably the most common cause of malfunctions when using alloy bullets in the autoloading pistol.

Commercial .45 A.C.P. cartridge cases take the standard .210-inch large-size noncorrosive pistol primers. These primers cannot be used in regular service cases which are made for the odd-size .206-inch Frankfort Arsenal .45-caliber pistol primers, which are the corrosive type. Special reamers are made to enlarge the FA primer pockets to take commercial size primers. However, the only good reason for reaming primer pockets is to make use of an unusually generous supply of service cases.

Because the .45 A.C.P. cartridge is used in a pistol which will not give good accuracy unless the parts are carefully fitted together, the general conception is that the cartridge is not particularly accurate. Under equivalent conditions the .45 cartridge, properly developed, would undoubtedly perform along with other handgun cartridges, not excluding the .38 Special. Some of the machine-rest results, while not as good as those obtained with the .38 Special, indicate that very fine accuracy is possible and we need look no further than some of the present-day scores made with tuned-up .45's in the hands of good pistol shooters. The biggest problem with the .45 cartridge, therefore, is not in the loading of it but in making over the guns to handle it accurately.

After the tune-up jobs are done, a good shooting load can be developed. The regular 230-grain, full-patched bullet is not particularly accurate, either in service loads or in handloads. Some of the special factory match loads shoot very well, but anyone owning a good .45 wants to use lead-alloy bullets for longer barrel life, especially after a rather costly tune-up job.

The development of .45-caliber lead bullets, other than the standard round-nose type which is not much better than the full-patched type, has been along the lines of the semi-wadcutter. One of the early developments was a semi-wadcutter with a single lubricating groove and a rather long cone-shaped nose, except for a flat point. The bullet weighs 200 grains and is identified as the No. 68 Hensley. It is the one we used largely for machine-rest group tests, because it was the one available at that time. According to the tables the No. 68 Hensley bullet did fully as well and a little better than some others. One of the more recent developments was the same bullet made over to weigh 207 grains (No. S-68), having a slightly tapered base to facilitate seating in the cartridge case without lead shaving. (Another experimental bullet was the Rowland described by Harry Reeves in THE AMERICAN RIFLEMAN, January 1942, page 12.) No. S-68, as will be noted, performed very well and quite consistent groups could be obtained in the pistols used, and most every well-known accuracy job was tried in the tests. Unfortunately, a comparison of more recent developments in the semi-wadcutter bullet is not included in these machine-rest group tests. The old No. 68 Hensley was modified to weigh about 215 grains with a longer body section and a more blunt and shorter nose section, and it contained two lubricating grooves. Called No. 78, it is now one of the most popular and most accurate bullets, but to date machine-rest accuracy groups have not been made to use as a comparison with the older style.

About a year or so ago Hensley & Gibbs made up a new bullet at the insistence of Harry Reeves. We understand Mr. Reeves' intentions were to have a bullet similar to the popular and accurate No. 78 Hensley, but to change the point to a still more blunt and rounded form. The main reason was to eliminate the malfunctions, which were rather common with the old No. 68 because the long point jammed as it fed from the magazine. Many of the pistols using the old No. 68 had to be worked over, altering the loading ramp, to avoid these malfunctions, which now are very important because of the no-alibi rule. We have used the 215-grain Reeves style which is the Hensley No. 118, and from rest shooting it appears to be fully as accurate as the old S-68 and the later No. 78.

The Hensley No. 118 bullet is usually seated into the case to give approximately the same over-all length as the service load, which is 1.27 inches. It is possible to seat the bullet down so the case mouth just reaches the sharp shoulder, or within 1/16 inch of it. This method gives a seating depth of .275 inch for the old 200-grain No. 68 bullet or .35 inch for the 215-grain No. 118. The regular seating depth for the 230-grain full-patched bullet is .29 inch or a little less than for the semi-wadcutter No. 118, but the same powder charges can be used because of the lighter weight bullet. The maximum load would be around 4.7 grains of Bullseye or 5.1 grains of Pistol Powder No. 6 for a velocity of 870 foot-seconds, or 5.4 grains of Pistol Powder No. 5 for 825 foot-seconds. We found that the most accurate loads were those listed in the tables.

The most popular loads for the latest semi-wadcutters are 3.5 grains of Pistol Powder No. 6 or Bullseye. These loads just about duplicate the old load of 4 grains of Bullseye with the 200-grain bullet, which had a more shallow seating depth. These same loads worked very well with the standard 230-grain round-nose lead-alloy bullet, which again is not as accurate in many pistols as the semi-wadcutter.

Probably the most accurate full load, even for a hunting combination, would be one of the semi-wadcutter bullets such as the No. 78 Hensley or the No. 118 Hensley with 7.5 grains of Hercules Unique to give close to 900 foot-seconds velocity at a safe pressure level. The sharp-shoulder bullet would unquestionably have much greater stopping power than any round-nose bullet such as the lead alloy or the full metal-patched.

Since as good accuracy as was expected was not obtained with some excellent .45 pistols on the machine rest, a number of tests were conducted from the prone rest position with head support, using both hands to hold the pistol. Supporting the pistol just forward of the trigger guard and aiming with the sight, groups were regularly obtained which are comparable to the best loads tested on the machine rest. In the hands of the better shooters, perhaps even better groups could be obtained in the offhand position, as seemingly the .45 pistol does not like to be tied down, nor does it perform too well when it has been.

International and National Matches

IN SPITE OF the fact that no funds for National or Regional .30-caliber matches have been appropriated by Congress (see below), American shooters will have a chance to fire in National and International rifle and pistol competition this year. Details of the competitions have not been completely worked out by the National Rifle Association, but dates and locations for the National Small-bore Championship have been determined. Tryouts for the International Shooting Union matches to be held on the range of Tiro Federal Argentina in Buenos Aires, November 4-13, (see "Buenos Aires Ranges," RIFLEMAN, February, page 30) in Buenos Aires, Argentina, will be fired at all Regional tournaments.

1949 NATIONALS

The House of Representatives has passed the Army Appropriation Bill without providing funds for National or Regional .30-caliber matches. Originally cut to prohibit any aid to the promotion of target practice, the appropriation was increased to provide assistance to clubs. After Congressman Van Zandt of Pennsylvania introduced an amendment from the floor to increase the appropriation by $250,000 to provide for National Matches, the Appropriations Committee explained the increase which they had provided for club assistance. Members of the Committee said that in the present state of the nation's financial affairs, they had not been able to convince themselves that the government was justified in subsidizing competitive events. The Van Zandt motion was voted down. An attempt is now being made to get the Senate to add the funds necessary for National .30-caliber Matches but the results will not be known until early in June.

In the meantime definite plans are being made to hold the National Small-bore Championships at Camp Dodge, Des Moines, Iowa, from September 1 to 5, with the Des Moines Rifle and Pistol Club and the Adjutant General of Iowa acting as hosts. As at Regional matches this year, the host Des Moines club will furnish the range and operating personnel, and the club will retain all entry fees. The NRA will furnish all prizes and it will appoint the Executive Officer, Chief Range Officer and Chief Statistical Officer. Most of the small-bore trophies competed for at Camp Perry will be back in competition at Camp Dodge.

National Match competition will be limited to persons who have competed in the Regionals. It seems likely, however, that the high twenty percent of competitors from each Regional will be authorized to attend, with perhaps a larger percentage being allowed to compete after learning the number of targets that can be made available at Camp Dodge. Most likely provision can be made at Dodge for 250 to 300 entries.

The National Small-bore Championship will be decided by firing twice over the Regional course of fire in four days. Team matches, including the Dewar, will make up the fifth day's firing.

Because of the present uncertainty of Congressional approval for big-bore National Matches, the NRA is going ahead with plans to hold the NRA National Pistol Championships and hopes that the National Board for the Promotion of Rifle Practice will authorize the firing of the National Individual and National Team Pistol Matches as a part of the match schedule.

If targets and personnel can be provided at Des Moines to hold the pistol matches concurrently with the small-bore rifle, the whole show will be staged at Des Moines. If this cannot be done, another properly equipped midwestern range will be utilized. All pistol shooters and clubs will be advised of developments in plans for National pistol matches by mail. Final details of both the National Rifle and Pistol Championships will be announced in the June RIFLEMAN and on the bulletin boards at all Regional tournaments.

1949 INTERNATIONALS

Small-bore rifle, .30-caliber free rifle, and pistol squads will be sent to represent the United States in the International Shooting Union Matches that will be held in Buenos Aires, November 4-13.

For both small-bore rifle and pistol, preliminary tryouts to determine the shooters eligible for International team tryouts will be held at all Regional championship tournaments. Eleven small-bore and eleven pistol Regional championships are scheduled and all dates and locations are given in Coming Events on page 50 of this issue. Any shooter interested in trying out for the International team, either small-bore or pistol, should definitely plan to attend one of the Regional championships. Plans for preliminary tryouts with the free rifle, and the date and location of the final International team tryouts will be announced.

Major General Merritt A. Edson, USMC Retired, well-known to American riflemen as one of the outstandingly successful rifle team officers in the long history of successful Marine Corps Teams and now Director of Public Safety in the State of Vermont, has been appointed by NRA President Swanson as Captain of the 1949 International Team which will attend the International Shooting Union Matches at Buenos Aires. A member of the NRA Executive Committee and Vice President of the Association, Edson was one of the first Regular Marine officers to take an active interest in the small-bore shooting game. ◆ ◆ ◆

NEXT MONTH— *A non-shooting father, concerned with providing an accurate rifle for his son, will publish the first part of a two-part article on bedding, which contains information on attaining the utmost from a rifle. Colonel A. M. Libasci's "What Makes a Pistol Champion?" is a survey of physical makeup, practice and match methods and equipment of the finest pistol shooters in the U. S. For those interested in gunsmithing, there will be an article on converting Jap rifles.*

THE OLD COACH'S PAGE

Among the many valuable pieces of advice and instruction given to rifle shooters today, one of the most important is timing—being able to get off the required number of record shots in the time limit allowed—and its pattern in relation to shooting. The old-timers are masters of it, and they give much credit for their shooting ability to timing. Many coaches and shooters think the word timing should be added to the other principles of marksmanship—load, aim, squeeze, hold breath, call shot, and follow-through.

THE IMPORTANCE OF TIMING

IT IS STANDARD routine, and it gets the best results, to start beginners shooting on the fifty-foot course. At the fifty-foot range, ten shots must be fired in ten minutes. The beginner does not know, naturally, and some instructors do not emphasize enough that there is a great difference shooting the short range indoor and the longer ranges outdoor. Both require the same amount of skill and both involve the same principles, but indoor shooting on short ranges is not done under the same conditions as outdoor shooting, namely wind, mirage, change of light. Consequently, many times when a beginner graduates to the outdoor range he finds himself unable to finish his record string in the time limit allowed.

There are several factors involved in shooting a match besides merely firing the record shots. For example, in the fifty-yard match, there are twenty shots to be fired in the time limit of twenty minutes. The outsider will say, "But that is plenty of time. One minute per shot!" There is, however, more to it than that. Everyone knows that to get the best results from a rifle barrel, four or five shots must be fired through it as quickly as possible when the range officer calls "Commence Firing!" These warm-up shots take roughly ten seconds, and the clock has already begun to tick away the twenty minute limit.

Next, the shooter has to sight-in on the sighting target. Perhaps he fired the same course last week, or even twenty minutes before, but almost every shooter wisely sights-in for each match since conditions might change from one moment to another. To study conditions through the spotting scope and to dope the wind and light takes time. Then to change the sights, or to load, aim, squeeze, fire and check the location of the shot hole, takes more time. To get some sort of pattern for match shooting, allow yourself two minutes for these operations. A little over two minutes from the original twenty has now been taken up, leaving a balance of roughly eighteen minutes for the twenty shots on the record target. A shooter, of course, should take his time sighting-in, because the closer to the center of the bullseye he is able to hit, the higher his score will be in X's.

All standard small-bore match courses have the same time limit. The competitor must have a set pattern of operations to accomplish, whether shooting indoors or outdoors, although the outdoor range, as mentioned before, offers more possibilities in unforeseen factors that may hold him up or give him trouble. A sudden gust of wind may come up, or it may change directions. He may have to go back to the sighter, or he may decide to wait until the gust passes before firing for record.

In round figures he has forty-five seconds in which to get off each of the twenty shots for record. He must use part of the time limit in establishing his pattern, and the total time necessary for completing the operations within the pattern for each of the twenty shots shouldn't vary much from remaini time. It isn't important how soon he finishes before the e of the time limit, but it is the difference between possibly w ning a match or being penalized for not having twenty sh on the record target because time was called before he co finish.

To get a pattern of smooth shooting which may be complet within the time limit requires shooting with as much coordi tion of body muscles and the principles of marksmanship (lo aim, hold breath, squeeze, call shot and follow-through) possible. The competitor must get off as many shots as he c while conditions remain the same as when he sighted-in wi out shooting either hastily or carelessly. The shooter sho take time enough but he must not wait too long between sh since waiting breaks up the pattern and allows the muscles tire, in general breaking up the routine for the string.

Of course if conditions do not change, time is in the shoote favor. If they do change, he has allowed himself a few sp seconds in which to make sight changes or to wait out the wi It is common to see shooters leaving the firing line with all five minutes to spare, and it is also common to see others s firing when the whistle is blown. The reason one can compl his string in plenty of time and others require more time t is allotted is simple. The former has a definite pattern operations, the latter does not.

The shooter should always make it a practice to have watch beside him when firing, even if he is only practicing. should shoot several strings and keep a record of the tim takes him to fire twenty shots for record, including warm and sighting-in shots. Naturally the time required for e of the strings will not be equal, but he will learn how to sh when conditions are good, and how to save valuable time wh factors may force him to use. The old motto 'shoot when is really true. By checking the time and mastering the ar getting off shots in a definite time sequence, the shooter w never get caught with a cartridge or two in his loading bl when time is called.

The next time you are on the range, time yourself for course, whether it is shooting indoors at fifty feet or shoot outdoors at fifty or one hundred yards. Then find the aver time you take in firing one shot. If the time required is m over or much below forty-five seconds a shot, examine the erations you go through for each shot and see if some of th can't be done more simply in less time or if some shouldn't performed with more attention to detail. See if it isn't possi to make more efficient use of the time allotted for each shot.

All the experts have mastered the pattern of timing, and t realize how important it is. It goes true with any sport. why not join that group?

THE SPOTTING SCOPE -- May 1949

Fort Dodge, Des Moines, Iowa, for the National Championships, joins Denver, the convention site, as one of the locations for big NRA doings in 1949. . . . All available information is printed this issue . . . with details scheduled for June. . . . Einson-Freeman Co., New York lithographers, has contributed ten thousand pocket-sized sighting aid trainers to NRA for instructional purposes. . . . Peoria, Ill., is latest U. S. city to assist local shooters . . . with a $5,000 appropriation for construction of a 50-point small-bore range with covered firing points. . . . National Skeet Shooting Association, now located at 3911 Oak Lawn Ave., Dallas, Tex., has set its National shoot dates for August 1-7 . . . and skeet-loving Texans are expected to swell attendance to 600. . . . Analysis of recent impartial survey for Remington reveals that in 1948 some 17,000,000 men did some sort of shooting for sport . . . and that more than 60 percent started shooting before the age of 20. . . . Now how about that junior program?

Some fun in the legislatures: North Carolina has made it unlawful for any game warden or game protector to carry any firearm while on duty. . . . Minnesota has decided that the manufacture, use, or sale of explosive cigars in the state is a misdemeanor. . . . Lucian Cary of True magazine continues his good gun series with "The Gunman's Private Eye", in June issue . . . a story of the H. P. White Co. . . . Lt. Col. Harry H. (Sandy) Kerr, who has been associated with Camp Perry, O., since 1907, will retire September 1. . . . Hard-working National and Olympic Rifle Champion Art Cook was ordered by his physician to drop out of school until next fall. . . . Walter J. Howe, Arms and Ammunition Editor of Hunting and Fishing magazine, has been promoted to Editorial Director of the same magazine. . . . Graham Anthony, of Colt, has been named Chairman of the Board . . . is succeeded as president by B. Franklin Conner, formerly executive vice-president.

Had your Sullivan Law story this month? This time, New York cabbie Herbert Lockett, robbed of his cab and ten dollars (second time in two weeks), fired at the fleeing vehicle with a borrowed gun . . . and was held by police. . . . Bill Fay, Sports Editor of Collier's, went off the deep end in a recent article on Art Cook by flatly predicting a victory for him in the Intercollegiates . . . a thing no rifleman would ever do. . . . But it was a good story even though the prognostication was flat. . . . Dick Spry of the Des Moines Register & Tribune is also publicity officer of the Des Moines Rifle and Revolver Club . . . sponsors of the Middle States Rifle Regional and the National Championships. . . . Film popularity is high with NRA clubs . . . which have swamped NRA's distributor with orders since the new catalog was issued. . . . Only drawback is lack of producers with new, authentic, and different movies available. . . . NRA is planning to call upon members of the Outdoor Writers Association of America, who meet next month at North Bay, Ontario, for some real assistance in forwarding its programs.

More than 800 U. S. weekly newspapers are carrying a series of five articles on how to shoot a rifle. . . . The series was distributed by NRA through the Western Newspaper Union. . . . Clubs interested in obtaining 16 mm. films of instruction with the Garand M-1 may write to the Commanding General of their particular Army Command. . . . The Department of the Army has just released the six-part series for public showings. . . . The caliber of collegiate shooting is on the rise . . . as indicated by team scores of 1400 points or over turned in by four schools in three sections of the country . . . and the fact that five individuals either tied or broke the old three-position mark of 288. . . . NRA is planning a survey of causes and conditions of firearms accidents . . . would like clubs and members to send in newspaper clippings and personal investigation reports on accidents in their communities. . . . Reason is that while National Safety Council gives total figures (2,816 fatalities in 1946: 2,500 in 1947) there is no breakdown as to Who, When, Where, Why and How. . . . If you haven't already—Make your plans now to attend the 1949 National Convention in Denver . . . October 17-21.

Ray Stann

National Intercollegiate, Junior Championship Results; Cook Upset

The University of Maryland five-man team, led by National and Olympic champion Arthur Cook, sewed up the National Intercollegiate Team Rifle Championship Saturday, April 9, by tallying 1419 points out of a possible 1500 on the University of Maryland range. The matches were fired in twelve sections with all scores being wired to National Rifle Association Headquarters. Second in the team race of over sixty college teams was West Point, firing in N. Y., with 1408, followed by the University of California at 1406, shooting on its home range. Navy, last year's champion, could do no better than seventh at 1397.

Woodward G. Eicke, George Washington University, of Washington, D. C., won the National Intercollegiate Individual Rifle Championship with an all-time record score of 290 out of a possible 300 points. Eicke scored 99 prone, 99 kneeling and 92 standing. He surpassed the previous mark of 288 set by Thomas Moncure, also of George Washington, in 1948, and beat nearly 500 collegiate shooters to win the 1949 crown. The big surprise of the individual race was the failure of Cook. Shooting for the one big title that has eluded him he was described on the range as a "bundle of nerves" and registered but a 286 which dropped him out of the first ten nationally.

The 1419 points registered by Maryland to win the team title was also a record score. It bettered by far the previous mark of 1408 set by another Maryland team in 1947. The individual scores of the team members were: Melville Bowers, 285; Emanuel Briguglio, 282; Thomas Taylor, 281; James Wells, 283; and Arthur Cook, 288.

California's number two team won fourth place in the national team rankings with 1400. The squad was followed by Minnesota at 1399, Wisconsin—1398, then Navy, Ohio State—1392, West Point #2—1389, Navy #2—1388, and George Washington—1387.

Second place in the individual firing went to Howard Heffan, of Columbia University, 289 (93 standing). Others in the first ten were: Robert Ribak, California, 289 (91 standing); R. L. File, Ashland (Ohio) College, 288 (92 standing); Gerald Prange, Penn State, 288 (91 standing); J. M. Thompson, Wisconsin, 287 (92 standing); Amos Mathews, West Point, 287 (92 standing); R. M. Gharmley, Navy, 287 (90 standing); George Martin, Ohio State, 286 (96 standing); and Howard Tepper, NYU, 286 (91 standing).

Comparison of scores from the 44 junior sectional tournaments conducted during March 12 and 19 place the Hamden High School of Connecticut and the Glen Post VFW #3075 juniors of Seattle on the top of the national ranking list among all teams. Robert Pehrsson, a member of the Hamden team won top individual honors represented by the General Morgan trophy. Marlene Bellinger, 1948 winner among the girls, repeated as tops in this year's girls' division:

Top ranking teams in the various classes scored as follows:

NON-MILITARY SCHOLASTIC TEAMS

1. Hamden High School, Hamden, Conn. 745
2. Grover Cleveland H. S., St. Louis, Mo. 737
3. Garfield High School, Akron, Ohio 728
4. Waynesburg H. S., Waynesburg, Pa. 726
5. Abraham High School, Brooklyn, N. Y. 724

MILITARY SCHOLASTIC TEAMS

1. Culver Military Academy, Culver, Ind. 737
2. Randolph Macon Acad., Front Royal, Va. 735
3. St. John's College H. S., Wash., D. C. 730
4. Peekskill Mil. Acad., Peekskill, N. Y. 723
5. South H. S., R.O.T.C., Denver, Colo. 723

NON-SCHOLASTIC TEAMS

1. Glen Post VFW 3075, Seattle, Wash. 745
2. Detroit Edison J.R.C., Detroit, Mich. 745
3. B-24 Marine J.R.C., Springfield, N. Y. 729
4. Monessen Jr. Sportsmen, Monessen, Pa. 726
5. Arlington Rim-fire Club, Arlington, Va. 721

GIRLS TEAMS

1. Detroit Edison J.R.C., Detroit, Mich. 695
2. Lincoln High School, Tacoma, Wash. 687
3. Clover Park J.R.C., Tacoma, Wash. 681
4. Oakmont High School, Oakmont, Pa. 681
5. Centennial H. S., Pueblo, Colorado 679

Three teams—Hamden High, Glen Post VFW, and Detroit Edison—tied with total scores of 745. Hamden and Glen Post also tied with identical team scores of 353 in the standing position, outranking Detroit Edison's 350. Further inspection of targets is necessary to break the first place tie and award the winner the Alamo Trophy.

INDIVIDUAL MATCH

1. Robert Pehrsson, Hamden, Conn. 192
2. John Love, Lakewood, Ohio 190
3. Robert Riese, Flushing, N. Y. 189
4. Alfred Troth, Monessen, Pa. 189
5. Dewayne Miller, Chicora, Pa. 189
6. J. Patton, Thibodeaux, La. 189
7. Marlene Bellinger, Seattle, Wash. 189
8. Frank Stamper, New Albany, Ind. 189
9. Mike Eddy, Pine Bank, Pa. 188
10. Imogene Bartlett, Opportunity, Wash. 188

HIGH GIRLS

1. Marlene Bellinger, Seattle, Wash. 189
2. Imogene Bartlett, Opportunity, Wash. 188
3. Theresa LaLonde, Detroit, Mich. 188
4. Phyllis Flory, Lawrence, Kansas 184
5. Sue Atwood, Llundas, Illinois 183

DCM NOTICE

Reports received from Ordnance arsenals by the DCM indicate that the supply of serviceable M1917 caliber .30 rifles is nearly exhausted. Consequently, it is unlikely that any orders from purchasers received in the office of the DCM after October 5, 1948, can be filled. Orders that cannot be filled will be returned to purchasers as they are reached.

Pending a check by Ordnance arsenals, the number of unserviceable M1917 caliber .30 rifles remaining is uncertain at this time. Orders for unserviceable M1917 rifles received up to October 4th have been sent to an arsenal. It is probable that most of these orders can be filled. Orders received after October 4th are being held in the office of the DCM until further information is received on the number of such rifles remaining in arsenals. Purchasers will be informed if it is impossible to fill their orders.

In cases where the purchaser requested both M1917 and M1903 rifles, the order for the M1903 is processed and sent to an arsenal.

LEATHER GUN SLINGS—The supply of both new and used leather gun slings has been exhausted according to advice from the Ordnance arsenals. The web sling will be substituted on all orders requesting slings.

IMR POWDER—The price of IMR powder has advanced from 22½¢ per pound to 80¢ per pound. The increase in price is due to increased costs. Orders for less than 150 pounds of this powder will be processed if the purchaser can supply his own container. The container should be shipped to the arsenal when requested.

The following items may be purchased through the DCM by NRA Senior Rifle Clubs, and NRA members not affiliated w a club:

Bullets, ball, cal. .30 M2, 152 grain, $20 per thousand. Packed 100 per carton, cartons per box. Cases, cartridge, cal. .3 M1, primed, $41.00 per thousand. Pack 20 per carton, 100 cartons per box.

In the case of club members, only a co solidated purchase request submitted to DCM by the club secretary for their c members will be accepted. Purchase reque must bear a certificate from the club sec tary that the items requested are for individual use of NRA members of the c and are not for resale.

Individual members of the NRA who not members of a club may submit indiv ual requests accompanied by NRA memb ship cards.

A limitation of 1,000 per member is pla on bullets and primed cases. No orders less than 100 will be accepted.

The difficulty in explaining clearly to p chasers the delays incident to receipt them of items purchased through the DC is illustrated by the following:

If a purchaser requests, for instance, M1903 unserviceable rifle, a M1917 uns viceable rifle, and various parts or ammu tion, it is necessary for a Form 5 to be p pared on each item. The Form 5 for M1903 rifle goes to one of several arsen the Form 5 for the M1917 rifle goes to particular arsenal (since all unservicea M1917 rifles were at one arsenal the load that arsenal has been very heavy), the munition order goes to one of three arsen which store ammunition, and the parts or will go to one of two or three arsenals wh may have a supply of parts.

SUMMER LEAGUE PROGRAM

All club and league secretaries are minded of the fact that the time for organization of their REGISTERED OU DOOR RIFLE AND PISTOL LEAGUES again upon us. Complete information c ering the conditions of the outdoor leag entry blanks, awards, etc., is being mail to the NRA affiliated club secretaries the secretaries of leagues that have been r istered with the National Rifle Associat in previous years.

Since the registered league program revived after the war in 1946, there has b a steady growth in the activity. The co petition affords shooters, new and old ali an opportunity to fire under tournament c ditions against members of other teams, their own club and in clubs in their gene locality. The competition gives the n shooter a chance to become 'tourname wise' and at the same time earn an offic classification.

Each team will have an opportunity to f for state and national awards which furnished by the NRA. The state and n tional 'shoot-offs' are conducted at the e of the league season under the supervis of an official referee appointed by the N tional Rifle Association. The awards w include a plaque for each league-winni team, plus brassards to each member of winning team whose score counted tow the team total at least one time during season. In addition to the league awar the winning team in the state shoot-off w receive a trophy and the members meda The National Championship team will awarded either a rifle or a pistol and meda

Report on the 1949 Grapefruit Circuit

The 1949 St. Petersburg National Midwinter Rifle Championships, the Tampa National Midwinter Pistol Championships, and the Miami International Open Pistol Tournament in Florida and the Second Annual Desert Cavalcade Internationals at Calexico, California, are now history. These March "meccas" for tournament shooters again proved one thing—they cannot be topped as shooting shows. For the main attraction they offer the best of competition and then surround it with such generous trimmings of social entertainment that they defy adequate descriptions. A person has to be on the scene to appreciate the talents of the generous tournament hosts.

ST. PETERSBURG

This year, as usual, the brilliant "galaxy" of tournaments was led off by the rifle shooters at St. Petersburg from March 8 to 12 with the championships sponsored by the Florida State Rifle Association and Sunshine Rifle and Pistol Club with the cooperation of the St. Petersburg Chamber of Commerce. William B. Schweitzer, Hillside, N. J., turned the tournament into a personal triumph. He won all three of the big titles and several of the individual matches. The New Jersey master won the National Midwinter Championship with a grand aggregate of 3187-194x of a possible 3200 points, the metallic sight aggregate with 1593-95x of a possible 1600 and the Dewar match aggregate with a total of 1594-99x of a possible 1600.

Behind Schweitzer in the grand aggregate were: Laurence F. Moore, Aberdeen Proving Grounds, Md., 3179-194x; Sam Bond, New Philadelphia, Ohio, 3175-186x; Charles C. Whipple, New Haven, Conn., 3170-201x (he took no prizes); Joe Steffey, Paris, Ill., 3165-167x; George R. Whittington, Amarillo, Texas, 3161-177x; and Adelaide McCord, Newickley, Pa., 3161-153x.

Second to sixth places in the metallic were taken by: Bond, 1591-101x; Moore, 1589-194x; Whipple, 1586-104x; Fred Johansen, Joliet, Ill., 1582-81x; and Allen Wilson, Shrewsbury, Pa., 1581-78x. The Dewar match finishers behind Schweitzer were: Moore, 1593-99x; G. A. Gustafson, Aberdeen, Md., 1590-86x; Bond, 1588-106x; Whipple, 1588-102x; and Dan Keener, Lehigh, Pa., 1587-85x.

TAMPA

National All-around Pistol Champion Harry Reeves, Detroit, Michigan, and Technical Sergeant Heulet Benner, the ex-title-holder of Ft. Knox, Ky., used the two big Florida pistol tournaments to carry on their perennial feud as to who's the better shot and ended up with no answer again. Reeves won at Tampa and Benner turned right around a few days later and beat the Detroit policeman in Miami.

They met at the Tampa National Midwinter Pistol Championships from March 15 to March 19 for the first time since Harry took Heulet over at the National Championships last October. Benner started off strongly the first day by taking the .22-caliber championship 877 to 871. Benner went to pieces the second day in the center-fire matches finishing 23 points behind Reeves' 874 at 851. On the final day of the individual matches, with the .45-caliber gun, Benner again outscored Reeves by six points 867 to 861 but it left him eleven points behind the National Champ who finished up with a grand aggregate of 2606. Third place in the grand aggregate went to Alfred Hemming, Detroit, Mich., with 2557, followed by Mark Billing, San Diego, Calif., 2554 and Thurman Barrier, Arlington, Va., 2551. Class winners were: Expert, J. M. Jagoda, 2530; Sharpshooter, Salvatore Bartletti, 2401; and Marksman, Eugene C. Bethea, 2232.

Other .22-caliber aggregate results were: Barrier, third (870); Maurice LaLonde, Detroit, fourth (867); Phillip Roettinger, Hartford, Conn., fifth (865); top expert—Jagoda (852); top sharpshooter—Carl Cassele (833); and top marksman—B. H. Curnick (792).

Other center-fire aggregate results: Walter Walsh, third (856); Barrier, fourth (855); Robert Mansell, fifth (854); top expert—Jagoda (848); top sharpshooter—Bartletti (825); and top marksman—J. C. Tamsey, Jr. (771).

Other .45-caliber aggregate results: Hemming, third (849); J. N. Woody, fourth (843); Billing, fifth (841); top expert—Jagoda (830); top sharpshooter—Jefferson Fell (832); and top marksman—Leo Vause (813).

MIAMI

As mentioned before, Benner turned the tables on Reeves at the Miami International Pistol tournament from March 22 to 25. The Army sergeant topped the national title-holder 2579 to 2564 in the grand aggregate, 861 to 849 in the .22 caliber and 869 to 854 in the center fire. Reeves salvaged the .45-caliber aggregate 861 to 849.

Other grand aggregate results were: Jagoda, third (2527); T. R. Mitchell, fourth (2513); 1st expert—Vito Perna (2456); 1st sharpshooter—J. L. Webb (2289); and 1st marksman—H. H. Albritton (2321).

Other .22-caliber aggregate results: Jagoda slipped in between Benner and Reeves to finish second here at 855; Walter Devine, fourth (843); 1st expert—C. N. Harris (829); 1st sharpshooter—William Schoeffler (796); and 1st marksman—Albritton (804).

Other center-fire results: Jagoda, third (848); Billing, fourth (845); 1st expert—F. J. Neff (817); 1st sharpshooter—Webb (791); 1st marksman—D. F. Edward (756).

Other .45-caliber results: Mitchell, third (837); Hemming, fourth (831); 1st expert—Perna (827); 1st sharpshooter—P. M. Baker (797); 1st marksman—Albritton (761).

CALEXICO

As for the Second Annual Desert Cavalcade International Pistol Tournament held at Calexico, California, on March 24 to 27, here is what NRA West Coast Representative Lee Echols reported:

Top shooters from nine Western states and the Territory of Hawaii bowed to the deadly pistols of Detective Lieutenant Emmett Jones of Los Angeles when the Second Desert Cavalcade Internationals ended at Calexico, California, on March 27, after four days of firing.

Jones fired a total grand aggregate score of 2576, leading his 2nd place teammate, E. M. Farrant, by 16 points. Paul Knepp, a Pasadena civilian, wound up in the third slot with a score of 2546.

Team firing was dominated by the Los Angeles Police Department whose quest for a fourth member to take the place of the great Jacob Engbrecht has apparently ended with the acquisition of Farrant. They won the .22-caliber National Match Course Four-man Team event with a score of 1151, Farrant serving up a 296 in a brisk wind. They took the Center-fire National Four-man Team Match with a score of 1136 and the Camp Perry Police Course Four-man Team Match with 1167, Farrant shooting a 296.

A strong team of Marines from the Marine Corps Recruit Depot at San Diego won the .45-caliber Four-man Team event with a score of 1119.

The Calexico Gun Club, which sponsors the program, showed the shooters what border hospitality can be with a barbecue for four hundred shooters and visitors at their newly constructed club house, a Western dance featuring The Yuma Buckaroos, the finest cowboy band in Arizona, and a trophy presentation banquet at the beautiful De Anza Hotel.

Additional color was added when the Gaviotas Gun Club of Mexicali, Mexico, brought a group of Mexican mariache musicians to the range who played native music for the shooters and spectators for several hours.

Scene of the 2nd Desert Cavalcade at Calexico, California, March 24-27

Clubs and COMPETITORS

Bill Kuhn, Secretary of the Illinois Valley Rifle and Pistol League tells of a fine new outdoor small-bore range being constructed in Peoria. The range is being built by the City Planning Division and will be located inside one of the city parks. Thirty-five firing points will be provided under a permanent shelter. Present plans provide for an article on this range complete with plans and specifications to be published in a magazine distributed to all City Planning Commissions. It is hoped that many of them will react favorably to the idea.

☆ ☆ ☆

Springport, Michigan, a town of 650 people, is celebrating, with considerable fanfare, the second birthday of its NRA Junior Rifle Club. The club, of 17 boys and 11 girls, shoots weekly on an indoor range and is equipped largely with rifles supplied through the Director of Civilian Marksmanship's Office. Typical of the state-wide publicity that the Springport Junior Rifle Club has brought to its home town is a twelfth place in national junior rifle competition and a second place in the state of Michigan.

☆ ☆ ☆

The Eau Pleine Rifle Club of Colby, Wisconsin announces something new in rifle club activity—a Sportsmen Show and Jamboree, to be sponsosed by the cub, on June 11 and 12. It will include one of the biggest field trials for bear, coon and fox hounds ever held in Wisconsin. The Sportsmen Show will be held at Marathon County Park, in Cherokee, Wisconsin.

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Many rifle and pistol clubs, in anticipation of the forthcoming International Matches at Buenos Aires, have inquired about the international type of pistol, small-bore and free-rifle target. These include the Olympic bobber silhouette as well as the 50-meter slow-fire pistol target and the big 300-meter rifle target used in the .30-caliber matches. Arrangements have been completed for all of these to be made available through the National Target Company, manufacturer of NRA official rifle and pistol targets.

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As an indication of the ever reviving interest in strictly offhand rifle shooting, comes word from the "Feuding Offhand Riflemen," affiliated with the Fort Boreman Rifle Club. The group now boasts twenty members and a waiting list. As a result of its regular Friday matches the club has been getting some very fine publicity in the Parkersburg papers.

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Last yea. at the Iowa State Championship in Des Moines, a new and somewhat different type of two-man team match was introduced and received with enthusiasm by the shooters. Perhaps other clubs would like to try the idea during the coming outdoor season. All Master competitors willing to shoot in the match were asked to turn in their names to the statistical office. Each Master was assigned a partner from the non-Master ranks, usually a newcomer to the game. A lot of new friendships were made and a lot of new shooters were given some valuable coaching that they would never otherwise have received.

During March an unprecedented number of young shooters became NRA junior Distinguished Riflemen. Fifty-eight boys and girls reached this top rating. Those issued Distinguished credentials included:

Paul Emmet Meyer, Detroit, Mich., Robert Pope, Portsmouth, N. H., Richard LeRoy Abbott, Port Jefferson, L. I., N. Y., Richard Hart, Cincinnati, Ohio, Thomas D. Thompson, Howe, Ind., JoAnn Renfro, Bozeman, Mont., Sandy Jennings, Independence, Mo., George Lund, Independence, Mo., Frank Pittman, Akron, Ohio, George Pletcher, Akron, Ohio, JoAnn Bias, Portsmouth, Ohio, Carolyn R. Lewis, Portsmouth, Ohio, L. D. Merrill, Jr., Pueblo, Colo., Lavern C. Moody, Oakland, Calif., Jerry Tolin, San Dimas, Calif., Don M. Satava, Bedford, Ohio, Louis Mossotti, St. Louis, Mo., Holly Ambrose Grinoger, Fergus Falls, Minn., Charles A. Moore, Arlington, Va., George L. Freeland, Larchmont, N. Y., William Goa, Denver, Colo., John Caruso, Hawthorne, N. J., Donald Harris, Asheville, N. C., David Olive, Evansville, Ind., Carlos Smith, Wash., D. C., John P. Nye, Kenmore, N. Y., John J. Lanning, Middle Village, N. Y., Allan Breig, Dayton, Ohio, Warren Happel, Quincy, Illinois, Lloyd Havird, Atlanta, Ga., Edward Greeno, Aberdeen, Wash., Louis Tremblay, Balboa, Canal Zone, Jerry Custead, Independence, Mo., Carlin Talcott, Independence, Mo., J. T. Dooley, Independence, Mo., Louis Wells, Independence, Mo., Lawrence Crawford, Jacksonville, Ill., Kawn Moody, Jacksonville, Ill., Ralph Bird, Dearborn, Mich., Joseph B. Sanches, Pueblo, Colo., Robert Boxer, Kansas City, Mo., LeRoy Weeks, Kansas City, Md., Adrian A. West, Morrisville, Vt., W. Richard Jackson, Jr., Coraopolis, Penna., Leslie Stevens, Redmond, Wash., Jack Behmke, Redmond, Wash., John Martin, Cohoes, N. Y., Bob F. Billy, Cleveland, Ohio, Robert G. Williams, Pueblo, Colo., Robert J. Rosenthal, Brooklyn, N. Y., Ralph H. Eisaman, Jr., San Antonio, Texas, Deane Upp, Chicago, Ill., Murray Ulanoff, Brooklyn, N. Y., William McLaughlin, Springfield, L. I., N. Y., Paul Larson, Kansas City, Mo., John McNay, Kansas City, Mo., Imogene Bartlett, Opportunity, Wash., Sarkis M. Zartarian, Jr., Arlington, Massachusetts.

☆ ☆ ☆

Six teams and forty-eight junior riflemen fired for the annual Long Island Rifle and Pistol Association championships on April 2. Top team was the Midwood High School. Top individual honors went to Arthur Chandler.

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The Urbana Junior Rifle Club notifies us that they wish to arrange postal matches with other junior groups which, like their own club, are newly organized and have very little match experience. Contact them through Virlon Moorehead, Vice-President, 701 North Orchard, Urbana, Illinois.

☆ ☆ ☆

The Portland Rifle Club, the oldest NRA chartered club on the Pacific Coast, conducted its Thirty-third Annual Gallery Rifle Tournament on February 27, 1949. The tournament was won by Stuart Edmonds, who has won every gallery rifle tournament he has entered in the past four years. In the twenty-shot prone, 10-shot standing match Edmonds fired a perfect two hundred in the prone position and a hot 98 standing. Wayne Forry placed second in the match with 293, firing a 93 in the offhand position. Edmo followed up his early lead by firing a to score of 196 in the 10-shot sitting, 10-sh standing match. In this event he fired a pe fect sitting score and turned in a standin target only four points down. In the thi match of the day Edmonds fired a 96 and 95 in the offhand position to outrank Ga Stockston, who fired 97 and 93 in his two o hand strings to end up one point behi Edmonds.

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The Minnesota Arrowhead Gallery Ri Tournament, sponsored by the Virginia Ri and Pistol Club of Virginia, Minnesota March 6, 1949 was won by A. J. Hammel Minneapolis with a score of 810 out of possible 900 points. Donald Nelson, also Minneapolis, placed second with 805 wh Quninto Aluni, of Virginia, rounded out t first three with 803. There were a total thirty-one competitors.

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Richard Pagh, of Anacortes, Washingto won the Fourth Annual Gallery Rifle Tou nament sponsored by the Bellingham Ri Club on March 6 with a total score of 8 out of a possible 900 points. Al Wyndha of the Bellingham Rifle Club, placed seco with 841. Young Pagh won three out the four scheduled matches.

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The San Diego County Small-Bore Ri Championship, sponsored by the West Co Rifle Club of San Diego, California on Mar 6, 1949 was won by Carl Walther with score of 1581 out of a possible score of 16 points. Paul Middlested, also of San Die California placed second with 1580 and A. E. Moore, third. Carl Walther compil his winning aggregate score by firing 789 of 800 in the iron sight events and 792 in t any sight events. The 42 competitors fi under good conditions with partly clou weather and moderate variable winds.

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The Winter Gallery Matches, sponso by the Metropolitan Rod and Gun Club Brooklyn, New York on March 12 and was won by Jim Lenney, Bronx, N. Y., wi a total score of 582 out of a possible points. Al Chandler of Woodhaven, N. fired a new junior record—winning the t position any-sight match with a total sc of 196. E. H. Ebdon, Jr., of Highland Pa New Jersey, established a new national ord when he turned in 197 for the four-po tion (5 rounds prone, sitting, kneeling standing) metallic sight match.

☆ ☆ ☆

Ralph Travis, of Waterloo, Iowa, won Third Annual Midwinter 50-yard and meter Indoor Tournament sponsored by Des Moines Rifle and Revolver Club March 19 and 20 with a total score of 1 out of a possible 1600 points. John Pe of Gary, Indiana, was outranked at the s total for second, as third place went to Da Rosenberg of Cedar Rapids, Iowa, as turned in the third score of 1597.

☆ ☆ ☆

The Twenty-First Ohio Championsh Gallery Pistol Tournament, sponsored by Central Ohio Pistol League on March 6, Columbus, was won by R. W. McLane, Da ton, with a total aggregate score of 12 points out of a possible 1500. H. V. Nob placed second, with 1264, and Carl Kraja Canton, Ohio, third.

UNIOR POSTAL MATCHES

With one monthly match to go in the current four-match series, the Seattle Glen Post VFW juniors have taken over the lead of the 'open' (prone and standing) division with an aggregate score of 2795. Last month's leaders, the young shooters of the Detroit Wilson Rifle and Revolver Club, hold second place with 2786, while the Arlington Rimfire Junior Club of Virginia climbed into third with 2783.

Munhall High continues in the lead among the all prone series for non-military scholastic teams. Their perfect team score of 500 for the third match boosts their total to 1496. Upper Darby High's 1491 holds second place with St. Louis' Grover Cleveland High in third spot with 1487.

Cretin High cadets took over the lead in the military scholastic division with an aggregate of 1471 followed by Phoenix Union High's 1463 and the 1461 of Xenia Cadet Junior Rifle Club.

Still in the top position among non-scholastic teams is Arlington Rimfire with 1487. The Glen Post VFW trails them by just four points. Third place goes to the 1475 carded by the Akron Sharpshooters Club.

Among the youngsters who compete in the special 'cub' division, that same Glen Post cub holds top honors. They maintain a five-point margin over the 1447 of Xavier High. The Polo Community High team trails Xavier by just three points.

Munhall High still dominates the girls' division.

EW RIFLE RECORDS

Since national rifle records were last published in the RIFLEMAN several changes have taken place. They are listed below.

INDOOR RECORDS

ividual, Any Sights:		
Shots Prone & Standing		
George Washburn, Columbus, Ohio	1942	388
Russell Kleis, Holland, Mich.	1948	388
Shots Prone & Standing		
Stuart C. Edmonds, Portland, Ore.	1948	199*
ividual, Metallic Sights (Jr)		
Shots 4 Positions PSKS		
ay Smith, Casper, Wyo.	1948	385
ividual, Any Sights (Women)		
0 Shots Prone & Standing		
Ann Schumaker, Trenton, N. J.	1948	384

OUTDOOR RECORDS

ividual, Metallic Sights:		
Shots at 100 yds		
Arthur Cook, Washington, D. C.	1948	400-37X
Shots at 50 Meters		
Robert Perkins, Fresno, Calif.	1948	400-34X
Charles C. Whipple, Greensburg, Pa.	1947	400-34X
Mart Henning, Coraopolis, Pa.	1941	400-34X
regate 940 Shots at 50 Yds, 100 yds, 50 Meters and Dewar Course):		
y Sights		
Robert E. Perkins, Fresno, Calif.	1948	1599-130X
ur Man Team:		
war Course, Metallic		
Glendale Shooting Club	1948	1593-105X
war Course, Any		
Wilmo Rifle Club	1948	1598-98X
ividual Metallic (Jr)		
Shots at 50 yds		
Joe Specht, Beverly Hills, Calif.	1948	400-33X
Shots at 100 yds		
R.W. Waters, Silver Spring, Md.	1948	400-23X
ividual, Any Sights (Jr.):		
war Course		
Arthur Cook, Washington, D. C.	1946	400-32X**
Shots at 50 Meters		
Richard Waters, Silver Spring, Md.	1948	400-32X

*Omitted in previous issues
**Correction—previously listed as 400-30X

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3/16" or .200" diam. soft lead wire. 25 lb. spool $8.75, 10 lb. spool $4.00, 5 lb. spool $2.50 plus C.O.D. postage. Uniform diam., density gives uniform weight, trajectory. Write for quantity discount. Check or money order. Money back if dissatisfied.

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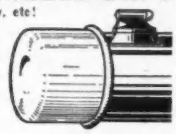
Keep bores free from dirt, snow, etc! ANY GUN CAN BE FIRED WITH MUZZLE-CAP IN PLACE! Positively will not affect breech pressure, safety or operation of gun. Oil-resistant elastic Neoprene. Approved by NRA and leading gun authorities. Rifle, shotgun, scope sizes. Pkg. of 10, 35c. 3 pkgs., $1.00.



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K4 Scope $45.00

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Weaver Detachable Mounts complete, $9.75. Extra bases, $1.50

Top Mount above; Side Mount at right.

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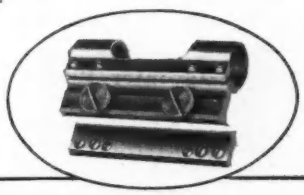
for .22, .25-20, Hornet, and similar rifles including N Mount as shown **$9.75**



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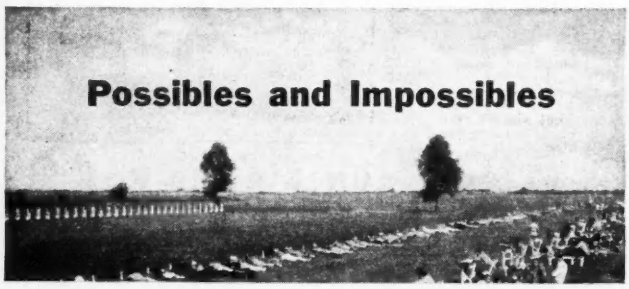
A PAPER FOR PEOPLE WHO SHOOT

Rifle

VOL. 12, NO. 5 BRIDGER

Possibles and Impossibles



Well, the big mid-Winter Rifle Championships at St. Petersburg, Florida, have come and gone and soon they will be just a pleasant memory. But those who were there will always remember the warm sunny days that dominated the entire week of practice and record shooting. In the memory of those shooters who come to "St. Pete" each year no match yet held has ever run so smoothly. The shooters themselves helped to make all this possible by their willingness to cooperate with the folks running the shoot. Scoring for each other in the 200-yard Matches made it possible to give good service.

You ask, "How was the wind?" Brother, there was plenty, and it came from every direction. It would blow you from one side of the target to the other, and when it came from the front or the rear it was really something to behold. Yet, the boys go for this 200-yard shooting. Moreover, they like the team matches because they get a big kick out of coaching teammates.

These midwinter Matches really bring people together. They promote a spirit of goodfellowship which carries over the years. When the last shots were fired and the last medals were handed out, the familiar "See you next year" was heard on all sides, and they meant it too.

The club sponsoring this Shoot tried out a new system this year, and it worked like a charm. In using this system they cut down the personnel—which meant quite a little cut in the payroll. They put up a bulletin board large enough to hold the name of each shooter, and each individual Match was listed on this bulletin board. They had two scorers, each aided by a lady who took care of the Match cards. The scorers called the scores, and as fast as a dozen or so cards were completed the scores were put on the bulletin board. When the last target was scored, it was only a few minutes before they had the final tally on the bulletin board. The shooters seemed to be well pleased because the bulletin board was completed much quicker than when using the regular preliminary bulletin.

We would like to see more clubs try out this type of bulletin board, because the shooters liked it and it does save work in the office if it is handled the way the boys in St. Pete worked it.

* * *

The past week-end we had the pleasure of attending a large Gallery Championship in New England. There were about 1100 entries, and nearly half of these entries were juniors and subjuniors. Saturday was Junior Day. It was refreshing to be there and see the enthusiasm of those youngsters. Many mothers and fathers were with them—and they were just as enthusiastic. The surprising thing to us was the number of girls taking part in this Match.

We feel that the coaches at the various clubs should be commended for their foresight and interest in the American youth, in teaching them the safe handling of firearms at an early age. The juniors are the future shooters and should not be overlooked by any club.

REMEMBER
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Special "E.P." Lubricant Boosts Efficiency of Popular Remington Oil

Keeping your gun in top shape helps you get the greatest amount of pleasure and accuracy. A special ingredient, Du Pont "E.P."—"Extreme Pressure"—lubricant causes Remington oil to spread more evenly. It also makes the oil adhere more tenaciously to metal surfaces of gun parts. Besides lubricating working parts of your gun, Remington Oil prevents rust. Many shooters report that they always keep a can of Remington Oil in their kit along with other popular Remington gun-conditioning aids. Ask your dealer for a can next time you drop in for ammunition.

RANGER PROGR ATTRACTS T TO SHOOTI

Here is a fine way to get young fellows you know interested in the shooting game. It will arouse the enthusiasm of you informal shooting, organized shooting

Youngsters can ficial NRA Rang plus a folder tellin to use a gun safe get helpful free li how to shoot; and can win the attra Ranger shootin shown above.

All they have write to Sportsme Bureau, 343 Lexi New York 16, N. Y.

THOUGHT FOR THE SEASON . . . "Plinkers

"This round I'll really give you a run for your

e Ryton News

BRIDGE MAY, 1949

WEATHER:
WELL, THIS IS MUCH BETTER

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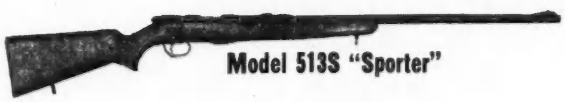
NOR THE OUTDOOR SEASON

ular Remington 22's Help Assure "Lifetime Of Shooting Fun"

ppy will be the shooter takes to the woods or ping trip this season pack- one of these popular Rem- on 22's. For plinking or ll game hunting, you can't the accuracy and smooth n of the Remington DEL 513S "Sporter" and el 521T. They're rugged, round sporting arms. Vet- s share with beginners the rness and enthusiasm for e smart, racy bolt-action

Model 521T



Model 513S "Sporter"

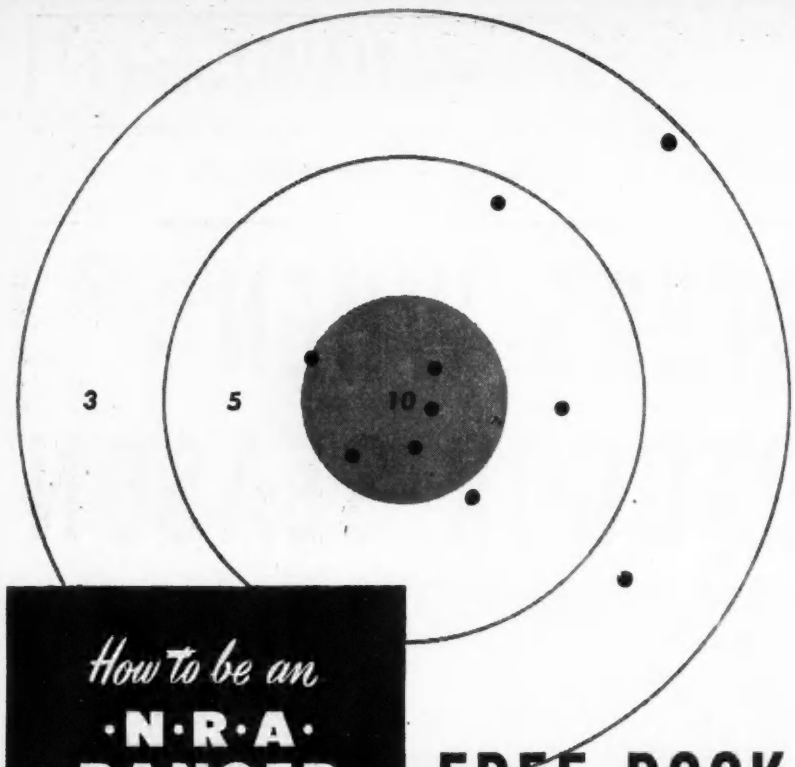
e "Sporter" 513S is ideal eneral use. It outclasses 22 rifles in its moderate range. This bolt action magazine repeater offers mely easy action, with oth, crisp, short trigger No backlash. No drag or Full-fashioned tailored stock and sling swivels add to its sporty appearance and ease of handling.

The 521T bolt action 22 rifle is a grand combination hunting and target sporting arm. Excellent for target shooting (with sights, sling, etc.), it is readily adaptable for plinking and hunting small game and pests. All you need do is unscrew the aperture in the micrometer rear sight. Resultant hunting sight makes for finer accuracy on snap shots and long shots, too.

With the outdoor season upon us, many clubs across the nation are taking a more active interest in young shooters. Some clubs have separate sections of the firing line for juniors or for training adult new members. Veteran shooters take time out to instruct the shooting stars of tomorrow in the fundamentals of gun position, aiming, squeezing, etc. Special events such as Father and Son and Father and Daughter shoots are being planned for the fresh new season.

Club members with experience in developing young shooters know that the right equipment is important but not essential to start. The basic principles are the same, whether it's a target rifle or a plinking rifle. Safe handling of firearms, position, sight picture, trigger squeeze and breath control can be taught without using an expensive target rifle. While it is true the novice will eventually need a rifle equipped with micrometer sights and a sling . . . and a spotting scope for spotting his shots when he gets into competition, they are not essential during a training period.

Top-flight ammunition for youngster and veteran alike is Remington standard velocity 22 ammo. Every cartridge delivers accurate, dependable performance that helps shooters get more fun out of the sport. Use Remington standard velocity 22's for target shooting or plinking. They're tops.



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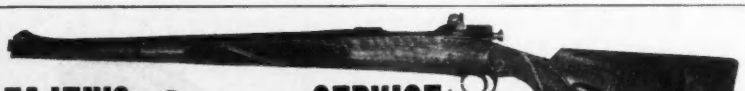

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COMING EVENTS

Regional Championship Tournaments (Class A) and State or Division Championships (Class B) only are listed below. All other N.R.A. Registered Tournaments are listed in a printed schedule that will be sent to any shooter upon request. Send your request by letter or penny postcard to the National Rifle Association, Competitions Section, 1600 Rhode Island Avenue, N. W., Washington 6, D. C.

Tournaments requiring advance entries are indicated by (Adv.). Tournaments limiting the number of entries that can be accepted are indicated by (Ltd.).

Always write to the tournament sponsor for a program in advance of any Registered Tournament you plan to attend. It is your assurance that you will know all of the details and the tournament conditions.

MAY

7-8 (B) CALIFORNIA—California State Pistol Championships at Bakersfield, California. Captain LeRoy F. Galyen, 1075 Alta Vista, Bakersfield, California (Adv-Ltd)

7-8 (B) TEXAS—Southwestern Rifle Tournament at Dallas, Texas. V. A. Noore, 208 N. Akard Street, Dallas, Texas

14-15 (B) TEXAS—Southwestern Pistol Tournament at Dallas, Texas. Mrs. Betty McPhee, 4018-B Travis, Dallas, Texas

15 (B) IDAHO—Idaho State Outdoor Pistol Championship at Boise, Idaho. Tressa Dodge, 2115 Madison Street, Boise, Idaho (Adv)

21-22 (B) ARIZONA—Twelfth Annual Arizona State Pistol championship at Phoenix, Arizona. C. Howard Hathaway, P. O. Box 71, Tucson, Arizona. (Adv-Ltd)

21-22 (B) KENTUCKY—Outdoor Rifle Tournament at Louisville, Kentucky. Harry M. Wheat, 4633 South First Street, Louisville, Kentucky

21-22 (B) ARKANSAS—Wonder State Small Bore Rifle Tournament at Little Rock. H. L. Remmel, 112 West 9th, Little Rock.

21-22 (B) NORTH CAROLINA—North Carolina State Pistol Championship at Durham, North Carolina. J. E. King, 105 North Hyde Park Avenue, Durham, North Carolina (Adv-Ltd)

21-22 (B) WASHINGTON, D. C.—Twelfth Precinct Pistol Tournament at Washington, D. C. A. M. Guelig, 1732 Capital Avenue, N. E. #2, Washington, D. C. (Adv-Ltd)

28-29-30 (B) CALIFORNIA—1949 California State .30-caliber Rifle Championship. Russell Wisler, Box 637, Belmont, California (Adv-Ltd)

28-29 (B) TENNESSEE—Tennessee State Small-bore Rifle Championship at Knoxville, Tennessee. A. W. Nine, 104 Underwood Place, Knoxville, Tennessee

28-29 (B) TEXAS—29th Annual State Small-bore Championship at Fort Worth, Texas. Henry H. Hankey, 823 Harris Avenue, Austin, Texas (Adv)

28-29-30 (B) HAWAII—Territorial .30 Caliber Rifle Championship at Honolulu, T. H. G. W. Premo, 2323-B Ala Wai, Honolulu, T. H.

29-30 (B) IDAHO—Idaho State Small Bore Rifle Tournament at Boise, Idaho. Tressa Dodge, 2115 Madison Street, Boise, Idaho (Adv)

JUNE

3-4-5 (B) MARYLAND—Tenth Annual Maryland Revolver and Pistol Championships at Sparrows Point, Maryland. Marcus H. Miles, Sparrows Point Police Department, Sparrows Point, Maryland (Adv-Ltd)

4-5 (B) OKLAHOMA—Magic Empire Small Bore Rifle Tournament at Tulsa, Oklahoma. Matt Dunham, 1708 South Yorktown, Tulsa, Oklahoma (Adv-Ltd)

4-5 (B) CALIFORNIA—Bay District Small Bore Rifle Tournament at Richmond, California. Chilton DeWitt, 3701 Lincoln Avenue, Oakland, California (Adv-Ltd)

4-5 (A) ARIZONA—Regional Small Bore Rifle Tournament at Phoenix, Arizona. Glenn Taylor, 3110 East Manor Drive, Phoenix, Arizona (Adv-Ltd)

11-12 (B) MISSOURI—Missouri State Small Bore Rifle Tournament at Warrensburg, Missouri. A. G. Taubert, Warrensburg, Missouri.

11-12 (B) KENTUCKY—Kentucky State Open Pistol and Revolver Championship at Louisville, Kentucky. Harry M. Wheat, 4633 South First Street, Louisville, Kentucky

11-12 (B) CONNECTICUT — Twelfth Annual State Small-bore Rifle Tournament at East Wallingford, Connecticut. J. Russell Lent, c/o Lyman Gun Sight Company, Middlefield, Connecticut (Adv-Ltd)

11-12 (B) ARKANSAS—Arkansas State Pistol Tournament at Little Rock, Arkansas. H. L. Remmel, 112 West 9th, Little Rock, Arkansas (Adv)

11-12 (B) TENNESSEE—Tri-state Small-bore Rifle at Chattanooga. William I. Bonnie, 4023 Ealy Road, Chattanooga (Adv-Ltd)

11-12 (B) UTAH—State Small Bore Rifle Championship at Fort Douglas, Utah. David P. Sugden.

#3 North 7th West Street, Salt Lake City, Utah (Adv)

17-18-19 (B) CALIFORNIA—Pacific States Championship Pistol Tournament at San Francisco, California. Emile J. Dutil, San Francisco Police Dept., San Francisco, California (Adv-Ltd)

17-18-19 (B) TEXAS—Annual .30 Caliber Rifle State Championship at El Paso, Texas. Henry H. Hankey, P. O. Box 287, Austin, Texas

19 (B) IOWA—Annual State Pistol Tournament at Davenport. Carl Prevratil, 110 East Columbia, Apt. #2, Davenport.

19 (B) MINNESOTA—Minnesota State Small Bore Rifle Tournament at Minneapolis, Minnesota. John A. Erickson, 3416 35th Avenue South, Minneapolis, Minnesota.

19 (B) OREGON—Oregon State Pistol Championship at Portland, Oregon. John S. Altman, 405 North Stanton Street, Portland, Oregon (Adv-Ltd)

24-27 (A) FLORIDA—Pistol Regional Tournament at Jacksonville, Florida. C. A. Brown, P. O. Box 253, Tampa, Florida (Adv-Ltd)

25-26 (A) COLORADO—Regional Rifle Tournament at Denver. Lloyd Markle, 1006 Olive Street, Denver, Colorado

25-26 (B) MICHIGAN—Michigan State Small-bore Tournament at Flint, Michigan. Erv Brehm, 3813 Brewster, Dearborn, Michigan (Adv-Ltd)

25-26 (A) IOWA—Mid-Western Regional Small Bore Rifle Tournament at Des Moines, Iowa. Howard Smith, Box 1395, Des Moines, Iowa (Adv-Ltd)

25-26 (A) TEXAS—Regional Small Bore Rifle Tournament at Waco, Texas. B. Ramsey Powell, Central Texas Rifle and Pistol Club, Waco, Texas (Adv-Ltd)

25-26 (B) MISSOURI—Missouri State Pistol Tournament at St. Louis, Missouri. G. Klersch, 8314 Page Avenue, St. Louis, Missouri (Adv-Ltd)

JULY

2-3-4 (A) NEW YORK—Regional Pistol Tournament at Poughkeepsie, New York. Mrs. Martha W. Strahan, 30 Arnold Boulevard, Poughkeepsie, New York (Adv-Ltd)

2-3-4 (A) TEXAS—Regional Pistol Tournament at Dallas, Texas. Henry H. Hankey, 823 Harris Avenue, Austin, Texas (Adv-Ltd)

2-3 (A) MONTANA—Regional Small Bore Rifle Tournament at Anaconda, Montana. Fred J. Mesenko, Anaconda Rifle and Pistol Club, 700 Oak Street, Anaconda, Montana (Adv-Ltd)

2-3-4 (B) HAWAII—Territorial Pistol Championship at Honolulu, T. H. G. W. Premo, 2323-B Ala Wai, Honolulu, T. H.

2-3-4 (A) VIRGINIA—Regional Pistol Tournament at Quantico, Virginia. Lt. Col. William L. Prickett, Provo Marshall, MCS, Quantico, Virginia (Adv-Ltd)

2-3 (A) INDIANA—Regional Small Bore Rifle Tournament at Bristol, Indiana. Garnette R. Horner, 135 South Scott Street, South Bend 2, Indiana (Adv-Ltd)

9-10 (B) OKLAHOMA—Oklahoma State .30 Caliber Rifle Championship at Clearmore, Oklahoma. E. M. Fuller, 207 South Toledo, Tulsa, Oklahoma (Adv-Ltd)

9-10 (B) OREGON—Oregon State Small Bore Rifle Championship at LaGrande, Oregon. Herbert S. Miller, 2707 North 4th Street, LaGrande, Oregon (Adv-Ltd)

8-9-10 (A) COLORADO—Regional Pistol Tournament at Denver, Colorado. Lloyd Markle, 1006 Olive Street, Denver, Colorado (Adv-Ltd)

9-10 (B) WEST VIRGINIA—7th Annual Small Bore Rifle Tournament at Parkersburg, West Virginia. R. A. Simpson, Fort Boreman Rifle Club, Parkersburg, West Virginia.

9-10 (A) CONNECTICUT — Northeastern Regional Small Bore Rifle Tournament at Middlefield, Connecticut. J. Russell Lent, Middlefield, Connecticut (Adv-Ltd)

10 (B) TENNESSEE—Tennessee State Pistol Championship at Nashville, Tennessee. R. Thurmond Hayes, Hemlock Avenue, Nashville, Tennessee (Adv)

16-17 (B) OKLAHOMA—State Small Bore Rifle Championship at Tulsa, Oklahoma. E. M. Fuller 207 South Toledo, Tulsa, Oklahoma (Adv-Ltd)

16-17 (A) MONTANA—Regional Pistol Tournament at Anaconda, Montana. Oscar Landet, Anaconda Rifle and Pistol Club, Anaconda, Montana (Adv-Ltd)

16-17 (A) MICHIGAN—Regional Pistol Tournament at Flint, Michigan. Kenneth Gilman, 1330 Begole Street, Flint, Michigan (Adv-Ltd)

16-17 (B) OHIO—Ohio State Individual Small Bore Championship at Mt. Gilead, Ohio. John R. Lang, 3498 Meadow Avenue, Cincinnati 11, Ohio (Adv-Ltd)

16-17 (B) UTAH—Utah State .30 Caliber Rifle Championship at Fort Douglas, Utah. David P. Sugden, #3 North 7th West Street, Salt Lake City, Utah (Adv)

15-16 (B) NORTH CAROLINA—13th Annual North Carolina State Small Bore Rifle Tournament at Conover, North Carolina. Glenn Sipe, Route 2, Conover, N. C. (Adv-Ltd)

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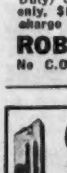

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23-24 (A) PENNSYLVANIA—Eastern Regional Small Bore Rifle Tournament at Harrisburg, Pennsylvania. George A. Spaid, 3017 North Third, Harrisburg, Pennsylvania (Adv-Ltd)

22-23-24 (A) IOWA—Regional Pistol Tournament at Davenport, Iowa. Dr. J. G. Johnston, 219 West 7th, Davenport, Iowa (Adv-Ltd)

23-24 (B) ARKANSAS — State Thirty Caliber Championship at Little Rock, Arkansas. H. L. Remmel, 112 West 9th, Little Rock, Arkansas (Adv)

23-24 (B) WASHINGTON — Washington State Small Bore Rifle Championships at Seattle, Washington. C. M. Styer, 120 West Hudson Street, Seattle, Washington (Adv-Ltd)

24 (B) INDIANA—Indiana State Small-bore Rifle Championship at Anderson, Indiana. Lt. Colonel John Friday, Building 115, Ft. Benjamin Harrison, Indiana (Adv-Ltd)

30-31 (B) OKLAHOMA—State Pistol Championship at Tulsa, Oklahoma. E. M. Fuller, 207 South Toledo, Tulsa, Oklahoma (Adv-Ltd)

31 (B) INDIANA—Indiana State Pistol Tournament at Bristol, Indiana. Mrs. Garnette Horner, 135 South Scott Street, South Bend, Indiana (Adv-Ltd)

31 (B) VERMONT—10th Annual Vermont State Pistol and Revolver Tournament at Northfield, Vermont. Louis B. Tims, 4 Wilder Street, Montpelier, Vermont (Adv-Ltd)

30-31 (A) WASHINGTON—Regional Pistol Tournament at Seattle, Washington. C. M. Styer, 120 West Hudson, Seattle, Washington (Adv-Ltd)

6-7 (A) OREGON—Northwestern Regional Small Bore Rifle Tournament at Portland, Oregon. Herbert T. Brown, 7159 S. W. 4th Avenue, Portland 1, Oregon (Adv-Ltd)

12-13-14 (A) ARIZONA—Regional Pistol Tournament at Prescott, Arizona. Mack Weiss, Box 1024, Prescott, Arizona (Adv-Ltd)

13-14 (A) TENNESSEE—Southeastern Regional Small Bore at Chattanooga, Tennessee. Paul Zenns, Box 7051, Chattanooga, Tennessee (Adv-Ltd)

19-20 (A) CALIFORNIA—Regional Pistol Tournament at Bakersfield, California. Captain LeRoy F. Galyen, California High Patrol, Bakersfield, California (Adv-Ltd)

STOLEN GUNS

The following was taken in holdup on March 23rd:

25 Automatic 6.35mm foreign, Star Co., chrome plated, purple plastic grips, #10777; 38 Special S & W, Mil. & Pol. Model, 6" bbl., chrome plated, stag grips, #S908244; 22 Colt Woodsman, 4½" bbl., sport model, #33945; 22 High Standard H. D. Model, 4½" bbl., #302752; 9mm. German Luger, 4" bbl., #3968; 9mm. German Luger, 4" bbl., #2786; 44 Spec. S & W, triple lock, heavy frame, white plastic (Franzite) grips, #2898; 32 Automatic (7.65mm) foreign, no maker's name, #41750; 22-45 Colt Conversion; 12 gauge Ithaca pump, 30" bbl., full choke, plain bbl.; 20 gauge Ithaca pump, 28" bbl., full choke, plain bbl.; 270 Winchester custom built Mauser, 22" Johnson Automatics bbl., featherweight, muzzle brake, Monte Carlo cheek piece, burly black walnut stock checkered, Redfield Jr. mount with Alaskan Scope, #31392, Mauser action, #88858; .30-'06 Springfield Sporter, light color very stripped birch stock, Monte Carlo cheek piece, Redfield Mount, G88 scope, #1512647; .30-'06 Springfield Sporter, light color stripped birch Monte Carlo stock, #3234691; .30-'06 Springfield Sporter with G88 scope, Redfield Jr. Mount, #3739209; .30-'06 Enfield Sporter, walnut no cheek piece stock, checkered, 330 Weaver scope; 6x30 Bausch & Lomb binoculars, coated lens, #LT4570; 6x30 Universal binoculars, coated lens, #6167; Magni-Vu binoculars, (3½ x 40mm) Century Scientific Prod., Inc.,; one Argus 35mm. camera (Model A1 or A2) with leather case. Ralph R. Lee, Sportsmans Exchange, 7831 So. Broadway, Los Angeles, Calif.

One .38 Special Colt Official Police Revolver, #707727, 4" bbl. B. Buckingham, 8621 Georgia Ave., Silver Spring, Md.

One .22 High Standard pistol, Model B, #17333. W. A. Truce, 812 Tenth Ave., Delano, Calif.

One .45 cal. single action Frontier Colt pistol, 4¾" bbl. #142909. Carl A. Stewart, Hubbell Bldg., Des Moines, Iowa.

One Fox Sterlingworth 12 gauge double barrel shotgun, #98590. R. L. Davis, Box 2527, Houston, Texas.

One Woodsman Colt 6½" bbl. (old Sporter Model) #39048. Reward. William J. Hutchinson, Faulkton, S. D.

One Remington rifle, Model 37, #08012, Lychrd Scope. Floy M. Zerance, 40 W. Glenwood, Ecorse, Mich.

One Remington Field Master, .22 cal., Model 121, #92035. Earl A. Marsh, P. O. Box 66, Doniphan, Neb.

One Colt .38 Super Auto., #73161. Alan de Bois, Honolulu Sporting Goods Co., Honolulu, Hawaii.

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GREENHILL FORMULA

In Eddie Cook's article, "Wildcat Deluxe" (RIFLEMAN, February) mention is made of the Greenhill formula. Could you enlighten me as to what this formula is, how it is derived, and a brief biography of Greenhill? —WILLIAM MASLAND, Chestnut Hill, Penna.

Answer: The Greenhill formula for determining the rate of rifling twist required to stabilize a given bullet was published in an article entitled "Twist And Bullet Shape" by the late J. Bushnell Smith on page 36, RIFLEMAN, May 1939. The formula will also be found on page 414 of *The Muzzle Loading Cap Lock Rifle* by the late N. H. Roberts.

According to Roberts the formula was established in early 1830 by an English scientist, Professor Greenhill. Other references indicate that Sir Alfred George Greenhill (1847-1927), English mathematician, was a lecturer in mathematics at Emmanuel College, Cambridge, 1873-76. He was also a professor of mathematics to the advanced class of Artillery Officers, Woolwich, from 1876 through 1906.

Additional information on the Greenhill formula will be found in a paper "On The Rotation Required For The Stability Of An Elongated Projectile" by Professor A. G. Greenhill, M.A., in Proceedings Royal Artillery Institution, Vols. 10 and 14. This source also gives a table of twists of rifling calculated by Captain J. B. Cundill, R.A., and extended by Mr. A. G. Hadcock, R.A., based on Professor Greenhill's formulas. The table follows.

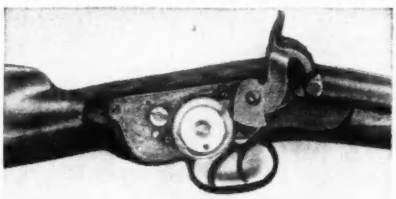
Length of bullet in calibers	*One turn of rifling in calibers*	*Length of bullet in calibers*	*One turn of rifling in calibers*
2.0	84.29	4.3	33.59
2.1	78.98	4.4	32.74
2.2	74.32	4.5	31.94
2.3	70.20	4.6	31.21
2.4	66.53	4.7	30.44
2.5	63.24	4.8	29.74
2.6	60.26	4.9	29.07
2.7	57.55	5.0	28.44
2.8	55.09	5.1	27.83
2.9	52.72	5.2	27.24
3.0	50.74	5.3	26.68
3.1	48.82	5.4	26.14
3.2	47.04	5.5	25.63
3.3	45.38	5.6	25.13
3.4	43.84	5.7	24.66
3.5	42.40	5.8	24.20
3.6	41.05	5.9	23.75
3.7	39.79	6.0	23.33
3.8	38.61	7.0	19.78
3.9	37.48	8.0	17.18
4.0	36.43	9.0	15.18
4.1	35.43	10.0	13.60
4.2	34.49		

To work the Greenhill formula, reduce the length of a bullet from inches to calibers by dividing its length by its caliber in inches. Thus, a .50-caliber bullet, 1½ inches in length, is three calibers long; a .25-caliber bullet, 1-inch long, is four calibers in length, etc.

As an example in the use of the table, suppose it is required to find the minimum twist necessary for a .45-caliber bullet 1.35-inches long. Dividing 1.35 by .45, we find the bullet is three calibers long, and opposite the number 3 in the table we find 50.74. So the bullet requires one turn in 50.74 calibers. To reduce this to inches, multiply the twist in calibers by the diameter of the bullet in inches (50.74 x .45), which gives about one turn in 22 inches.—A.H.B.

UNUSUAL LOCK MECHANISM

I am wondering if you have ever seen the lock mechanism of a gun similar to the enclosed photographs? The watch mechanism



No explanation has been heard of the purpose of this timing mechanism on the right-hand lock of a muzzle-loading ten bore

Inside of the lockplate with timing mechanism

moves slightly and engages with a small sprocket shown on the left when the timing mechanism is set. There is a large concentric coil spring, which goes all around the watch mechanism, which appears to provide the main source of power and is wound by a large key from the half shaft shown on the external view. The gun is a double-barrel muzzle-loading ten bore.

The watch is not merely an addition, the lock plate on the stock being clearly made to suit the gun. Only the right-hand trigger is operated by the timing mechanism, although it can be operated in the usual manner.

Can you, or any of your readers, tell me of any possible use, or the purpose for which this timing device was designed? A number of well-known gun dealers and collectors have never seen anything like it and can only make suggestions, such as a time gun, or a gun for duck shooting at dawn and dusk, etc.—C. G. VOKES, Surrey, England.

HIDING DENTS IN GUNSTOCKS

Since so many military rifles are now being made into sporters, I thought this tip on stock finishing might be of interest.

When fixing a Mauser I found the stock, though made of very good walnut wood, had the usual number of dents and abrasions, and in addition one bad deep scratch that I knew could never be raised by the hot water treatment.

I expected that any kind of filler or plastic material used on the scratch would contain some oil or varnish which would have a tendency to darken the wood around the scratch, making it more noticeable. To prevent this, I coated the scratch with white shellac applied with a very small pencil brush. This sealed up the abraded fibers and prevented them from absorbing oil from the filler. While at it, I put shellac on several other small dents and scratches, and on one of them I applied too much. It would not all soak in, but was already about half dry. I wiped off this excess shellac, using a piece of fine garnet paper, as it was the only thing handy. To my surprise, after a few rubbing strokes I found the scratch practically disappeared. The sanding dust

BAUSCH & LOMB 60-MM. SCOPE

Instead of the small, compact prewar 50-mm. and the big, heavy 65-mm., only one postwar spotting scope model is being made by Bausch & Lomb. Redesigned completely, the 60-mm. with its strain-free, positively aligned prisms, is about as light as the old 50 mm. and far more compact than the 65 mm. When compared side-by-side with the earlier models, the 60 mm. with Balcote anti-reflection coated lens and prisms is far superior to the 50 mm., though actually it is no better and under some conditions not as good as one of the 65-mm. scopes which has been in use for at least eight years. However, the difference in size and weight is a real achievement.

New features of the B&L scope are one-click eyepiece movement for fast focus to check on mirage and long eye relief of about ⅞ inch with the 20X eyepiece, a desirable feature when wearing shooting glasses. The 60 mm. is available with 13, 20, 27, 35 and 60X eyepieces.

About ⅛ inch of the eye relief was lost in the older models because of the eyepiece construction but practically the entire eye relief of the 60 mm. can be utilized, as the ocular lens comes almost flush with the back edge of the eyepiece. The 60-mm. spotting scope, considering size, weight, eye relief and other good qualities, is just about ideal.

A comparison of the two prewar models and the 60-mm scope is given below.—A.H.B.

	50 mm. (19.5X)	60 mm. (20X)	65 mm. (20X)
Weight with caps	2 lbs. 6 ozs.	2 lbs. 6½ ozs.	4 lbs. 6 ozs
Length with caps	12¾ ins.	13⅝ ins.	19 ins.
Diameter of tube	2.6 ins.	2.75 ins.	3.05 ins.
Eye relief	½ inch	15/16 inch	⅝ inch
Relative brightness	6.3	9.0	10.1
Obj. dia. (clear)	50 mm.	60 mm.	65 mm.
Ocular lens (exposed)	13 mm.	21 mm.	16.5 mm.
Exit pupil	2.55 mm.	3.0 mm.	3.25 mm.
Field of view (100 yards)	11.2 ft.	11.1 ft.	10.4 ft.

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from the surrounding wood was being held in the half-dry shellac, sealing the little scratch with the very same wood. I then went to work on the big scratch. It took several coats of shellac and sandings, but finally became absolutely level with the rest of the surface and was almost unoticeable. Later when the stock was oiled and finished it was a little darker, but does not have the appearance of being repaired.—E. M. STUKAS, Clinton, Iowa.

BIRCHWOOD MAGIC BLUER

Most everyone who tinkers with guns has use for a simple, easy-to-apply cold chemical bluer which does not require a complete tank outfit. Recently we have had good results with the cold bluer made by C. S. Van-Gorden, Eau Claire, Wisconsin, but others have reported that in some cases the old finish was removed when this touch-up blue was applied. Investigating these reports we found that Van's Instant Gun Blue would not mix with the salts immersion bluing, but worked well for touch-up bluing put on by the cold rusting or the boiling water method.

Now a new cold chemical has been developed by the Birchwood Chemical Co., Minneapolis, Minn., which is distributed by A. B. Harris, P. O. Box 505, Gary, Indiana. This is a cold bluing process to be used at temperatures of 70 degrees F. or above. No heat or boiling water is necessary. When the simple instructions are followed, a very passable touch-up or even complete bluing job can be done. It is best recommended for spot bluing, as the finish is rather thin and may not wear too well. We did a very passable bolt handle bluing job in ten minutes, but we did use a boiling water rinse between applications. Magic Bluer will mix with the immersion blue, and we can recommend it as being the very best touch-up blue we have tried so far. It will not always match the old blue, however.—A.H.B.

SHEEPSKIN AND GUNS

Having read the article, "More on Sheepskin and Rust" (January, page 56), and being a hunter and owner of several fine guns as well as a chemist and technologist in leather manufacture, I should like to give the following information to readers.

The advice offered is very sound and no owner of a gun wants to have it suffer rust or corrosion. However, I want to emphasize that today all reliable tanners have chemical control laboratories and employ chemists to supervise their processes and determine the final character of the leather. Such chemical control, based on a knowledge of tanning materials and processes, provides the means to avoid undesirable properties or characteristics in the finished product.

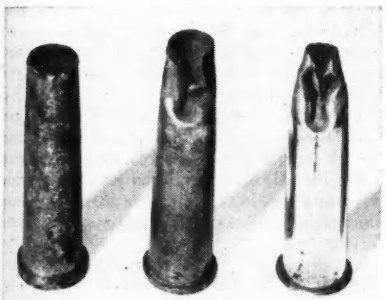
The reputable tanner will provide gun case manufacturers with leather which has had all undesirable salts removed. This is accomplished by proper washing of the skin during the tanning processes, whether it be vegetable or chrome. It is noteworthy that the use of alum is very limited in the tanning of shearling leather and it is not used by any reputable members of the industry producing shearling leather in commercial quantities. Consequently, difficulties with gun cases attributable to the use of alum tanning can be discounted as a practical matter.

In my own rather extensive experience with guns I have found that one of the principal factors resulting in rust is putting

gun in its case after it has been used and before cleaning. While this may be done temporarily in returning from the field to the club or home, a hunter who has any respect for his gun will remove it from the case as soon as he comes in and permit it to come to room temperature as a preliminary to the necessary cleaning. If that is done the rusting problem will be reduced to a minimum.—FRED O'FLAHERTY, Secretary, American Leather Chemists Assn., Cincinnati, Ohio.

COLLAPSED CARTRIDGE NECKS

I have been having trouble with my reloading in the 8.15 x 46-mm. Aydt Schuetzen, using 10-grains of Du Pont No. 80 with Remington No. 8½ primers behind Ideal bullet No. 308493 and hand-turned cases made from ordinary brass solid stock and turned on a lathe. The first case had a thin neck, about .008 inch, and folded in on the third shot. It was roughly straightened on the range and stood up for two more shots. That ended the shooting until the second case was made with a neck thickness about .020 inch; it folded on the fifth round. I thought perhaps the case was too long and filed it off to a shorter length. It lasted for seven more rounds, then folded in. Having a .32-40 case, it was cut off to the length seen in the sample.



Necks of two lathe-turned cases and a .32-40 case collapsed after firing in an 8.15 x 46-mm. Aydt Schuetzen. A paper wad seated over the powder charge gave trouble-free shooting

The bottleneck shape of the case causes a neck sizing action when the case is inserted in the chamber; so I am moderately certain that there was a gas-tight seal and yet it folded in on the tenth shot.

Can you tell me what I am doing wrong to cause the cases to fold in?—L. G. FAUBLE, Dayton, Ohio.

Answer: Frankly we do not know the reason and can only give some guesses. One is that the neck of the case may not be a very tight fit in the neck of the chamber and, because you use no wad, some powder may have gotten in between the neck of the case and the neck of the chamber, causing the folding in. You might try using a wad over your powder to keep it from spilling out, and you might also expand the necks of the cases so they fit the neck of the chamber tightly as they go in.—J.S.H.

Second letter: Reporting on your suggestion, the same load was used with a wad of photographic blotter paper (because it is lint-free) but with a punch slightly oversized and seated ⅛-inch deep in the neck of the case. The results were excellent, and a single case was reloaded 43 times with no failure or hint of folding. With these results I will now begin to develop an accurate load, using a better fitting bullet.—L. G. FAUBLE, Dayton, Ohio.

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☐ 8mm Lt 159 gr. SN (.318) Cop. Jack., 100	4.60
☐ 8mm 196 gr. SN, (.318), 100	4.60
☐ 9mm fast Var. load only 119 gr., SN, 100	4.25
☐ 9mm 116 gr. M.P., mics (.3645) per 100	3.90
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Ashton & Co. have moved to their new Hollywood location and now offer a complete and expert rifle and shotgun repair service, including re-bluing, rechambering and rebarreling. Catalog sheets are available on NORMA Ammunition . . . new stocks always arriving. Write us if you own a foreign rifle.

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BLU-BLAK—SUPERBA

CASE TROUBLE WITH LIGHT LOADS

In the January Dope Bag was a letter from Mr. William S. Edmonds about light loads shortening cartridge cases. My remedies for a similar trouble might be of interest.

Using very accurate .30-'06 cartridges loaded with Ideal No. 3118 bullet seated friction tight in the neck without crimp, about 10 grains of Hercules No. 2400 powder and Remington No. 9½ primers, from 40 percent to 70 percent of the cases were shortened so much that the primer popped out so far they would not go into the shell holder of my Red Head reloading tool and, hence, had to be decapped with a hand punch.

The first trick tried was increasing the charge until the trouble disappeared, which was unsatisfactory since it gave higher velocity than I wanted and didn't help accuracy. I then tried large pistol primers and got uncertain ignition. It occurred to me that the shortening might be caused by the thrust of the primer flash on the bottom of the primer pocket. The remedy would be to reduce the thrust. The less potent Remington No. 8½ or Winchester No. 115 primers didn't reduce the trouble, so I tried reducing the area which took the primer blast. I enlarged the flash hole to about .116 inch with a number 32 wire drill and then used Winchester No. 115 primers. Ignition was absolutely positive due to the larger flash and accuracy with 10 grains of powder was very good indeed.

Of course, one must be careful not to use such altered cases for full charge loads, but out of several different batches of cartridges I use for reloading, I picked one batch with a certain headstamp and use them only for this purpose.—JERALD T. TEESDALE, Madison, Wisc.

.22 HORNET LOADS

I have a Savage .22 Hornet (19-H) rifle and would like to reload some cases to maximum velocities. I have an Ideal Handbook, but it does not give much on the subject. I plan to use 45-grain Sierra bullets and Hercules No. 2400 powder. The Ideal Handbook lists 9.5-grains powder to get a muzzle velocity of 2400 foot-seconds. Can I load up to about 2800 foot-seconds or better safely if I weigh my powder carefully?—EARLE E. FRAZIER, Gallipolis, Ohio.

Answer: The handbooks seemingly have stuck to the old 2400 foot-seconds velocity load for the Hornet rifle. I have some literature indicating that the maximum recommended charge of No. 2400 with 45-grain bullet is 10.4 grains, giving 2640 foot-seconds velocity at 42,000 pounds pressure when using a seating depth of .196 inch. This is about the heaviest load I would recommend you use.—A.H.B.

CARTRIDGE CASE LENGTH

The maximum length for the .220 Swift cartridge case is 2.205 inches. What I now want to know is the minimum length.—CHARLES G. AULD, Martinsburg, W. Va.

Answer: There does not have to be a minimum cartridge case length for the .220 or any other cartridge. The important thing is that the case definitely should be no longer than the maximum length. No harm whatsoever is done if the case is slightly short for the chamber but if it is too long the

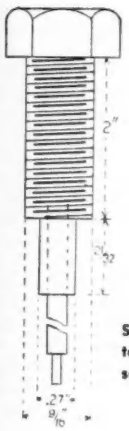
mouth will jam up in the throat or rifling and cause inaccuracy plus excessively high pressure. I normally cut my cases about .005-inch shorter than the recommended length. For uniform seating depth and bullet pull, all cases should be exactly the same length.—A.H.B.

DECAPPING CRIMPED IN PRIMERS

With an ice pick and one 18 thread, 9/16 x 2-inch long cap screw, you can make a sure-fire decapping pin at a total cost of about 15 cents. Tools needed are one machine lathe. The cap screw needed is shown after it has been put in the lathe and the end turned down. The hole for the ice pick is drilled ⅛-inch deep and just about .0002-inch smaller than the diameter of the pick.

Grind off the sharp point of the ice pick and cut it to an over-all length of 3¼ inches. Put the ice pick in the lathe chuck with only about ½ inch sticking out and file it to make a square shoulder with a projection of about ¼ inch to fit in the flash hole as shown. Now take the cut-off ice pick and put it in a vise with copper jaws and drive on the cap screw.

This will work on most popular brand dies. Use your old locking nut and see that you have a perfect center and then lock with lock nut.—BALDWIN C. JOHNSON, 917 E. Palmer St., Compton, Calif.



Sketch of a decapping tool made from a cap screw and an ice pick

NEW PRODUCTS

Three new Hi-Standard pistol models were shown at the National Midwinter Pistol Matches at Tampa. Called the G-B, G-D and G-E, these new guns feature a quick and easy method of removing the barrel and slide. To remove the barrel, a latch just forward of the trigger guard is pressed upward and the barrel is drawn straight forward off the frame. The slide can then be drawn off in the same way if desired. This feature makes the guns extremely quick and handy to clean, and also makes it possible for the guns to be obtained with barrels of different lengths and weights which can be interchanged in a split second. Of course, all barrels to be used on any one gun should be adjusted to that particular frame at the factory for proper fit and functioning.

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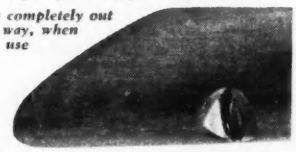

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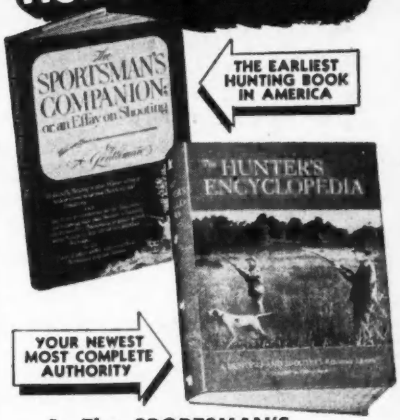
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the original Center Dot reticule for scope sights, made only by Lee. Choice of shooters in the know. Will improve YOUR shooting. Now standard factory equipment in Lyman Alaskan, Challenger, Norman-Ford Texan, Stith Bear Cub, Fecker, Unertl and Bausch & Lomb, all famous names in the optical world. There had to be GOOD reasons for their choice of LEE DOT. Beware of imitations. Every scope with the Lee Dot bears my copyrighted label. Look for it, insist or you may be sold a substitute.

Prompt installation in Alaskan, Challenger, Texan, Noske, Hensoldt, Zeiss $12.50; Bausch & Lomb $12.50; Weaver's G scopes $7. Weaver K scopes, J models, old 330-440 and IX $8.00; target scopes $10. Install it yourself $7. New scopes carried in stock in large quantities, immediate service always: all Lee TH Dot equipped: Alaskan $72.50; Challenger $97.50; Texan $62.50; Cub $65.00; G4 $16.75; G6 $19.50; J2.5 $30.50. J4 $35.00; K2.5 $45.00, K4 $53.00, K6 $56.50; Hawk $62.00; Falcon $58.00, Condor $76.00. Echo, Redfield, Stith and Weaver mounts. Regular dealer discounts to legitimate dealers. Free illustrated folder and price list. 45,000 users can't be wrong!

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HAGEN ENGINEERING

5211 So. Monitor, Chicago 38

All three of the new guns are hammerless. Model G-B has the short grip, like that of the old model Colt Woodsman. The short frame is preferred by many who use the guns in hunting and trapping, as distinguished from target shooting, as it makes a smaller, handier and less bulky weapon to carry around. Model G-B (price $50) has a lightweight barrel available in two lengths —4½ inches and 6¾ inches. Sights are fixed.

Models G-D and G-E are target models, built with the long grip, and are alike except for barrel weight. Model G-D has medium-weight barrels, while Model G-E has heavy barrels. However, with the quick-change feature, any weight or length of barrel can be used on any of the three frames. Like the light barrels, the heavy and medium weights come in either 4½- or 6¾-inch lengths. These target guns have the new Hi-Standard, fully adjustable, click-type rear sights, and can be had with either plain walnut grips or with thumb rest grips. Guns are handsomely finished with glossy blue except on the front and back straps and top of slide, which have a non-slip, non-glare velvet matte finish. Model G-D, with plain grips is priced at $60.00; with "T-R" (thumb rest) grips it is $65.00. Model G-E with "T-R" grips is $68.00.

It is expected that these new models will be in full production in about another month or two, at which time the former Hi-Standard models will be discontinued.

☆ ☆ ☆

Colt "Officer's Model Special" revolver was shown to visitors at the Colt booth at the Midwinter Nationals, Tampa, Florida, March 15 to 19. The new gun, featuring a very heavy barrel and the Colt Master rear sight was seen in both .38- and .22-calibers. The extra heavy barrels are three-quarters of an inch in diameter and straight from end to end, with no taper. This adds about 4 ounces to the weight, making the .38 weigh about 40 ounces and the .22 about 42 ounces.

The Colt Master rear sight on these guns is the same as that on the Match Target Woodsman, and it is fully adjustable for elevation and windage by clicks. In order to put these sights on the revolver, it was necessary to increase the thickness of the rear strap over the cylinder to permit cutting a dovetail to receive the sight base. (This sight cannot be installed on regular type Officer's Model revolvers because the thickness of metal of the rear strap is not great enough to accommodate a dovetail without weakening the frame too much.)

The front sight on the Officer's Model Special is an undercut blade, mounted on a long gradually sloping ramp, that gives a very handsome appearance and builds the sight up to the height of the Master rear sight.

Another feature of this model is a new type hammer with transverse serrations instead of the usual knurling on the thumb-piece, and with a deeper indentation, making for easier cocking.

With the new model not yet in full production, the price has not yet been announced, but it will be given in the RIFLEMAN as soon as it is available.

☆ ☆ ☆

The new S&W K-.38 Masterpiece excited much admiration and favorable comment from the shooters who saw it at the Smith & Wesson booth at the Tampa Midwinter Nationals in March. This new target revolver has a thicker, heavier, barrel, nearly

IMMEDIATE DELIVERY ON ALL BUEHLER EQUIPMENT

The newest addition to the armory of Dr. Russell Smith (see Outdoor Life, Nov. 1948) **an Enfield—do you recognize it? Built by Keith Stegal, Gunnison, Colo. Hawk Scope—BUEHLER MOUNT.**

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Happy Hunting **Oh! Oh! Too bad!** **Sight Damaged.** **Little Blue Peep to the Rescue** **End of Perfect Day, Thanks to Blue Peep**

New BUEHLER *Equipment*

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A convenient auxiliary iron sight to replace a damaged scope. On or off in a jiffy *without disturbing scope zeroing.* Carry one in your watch pocket (weighs ½ oz.) and be prepared.

Model B for *Buehler* mounts
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$3.35 P.P.

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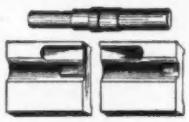

Requires Use of Oxy-Acetylene Torch

cylindrical from end to end, surmounted by an extra wide, grooved rib running the full length of the barrel. The heavy barrel and wide rib increase the weight of the gun by about 1½ ounces, making it weigh approximately 38½ ounces when fully loaded.

Important optional features are a new hammer with a low positioned extra wide spur, costing $2.50 additional, and a new extra long heavy stock with built-in adapter, costing $5.00. This stock lengthens the grip by about 5/16 inch, and the adapter nicely fills the vacant space just behind the trigger guard.

The new gun, complete with the two optional features described, will retail for $72.50.

Another new S&W product is the round butt, .32 Hand Ejector with two-inch barrel. This was made especially for the policewomen of the New York City Police Force, who wanted an efficient gun that would fit neatly into their handbags. This small light policewomen's gun weighs only about 17 ounces, and sells for $51.25 in blue finish.

GUNSMITH TRADE DOPE

Colt's Manufacturing Company, Hartford, Conn., has announced that at a meeting of the Board of Directors on March 24 the former President of the company, Mr. Graham H. Anthony, was moved up to the position of Chairman of the Board. Mr. Anthony, a great friend of the NRA and its shooting members, was succeeded as President by Mr. B. Franklin Conner, former Vice President.

Continued progress in postwar improvements in production methods and in new models may be expected under the change.

☆ ☆ ☆

Bob Brownell, Montezuma, Iowa, has just issued a new 300-page Gunsmith Catalog, which is just about the most fascinating thing of the sort we ever saw. The listing of his exceptionally complete line of

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OF EVERY RIFLEMAN WHO TAKES PRIDE IN HIS EQUIPMENT

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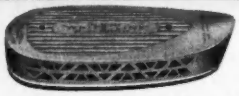

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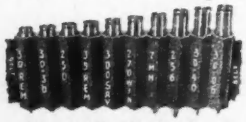

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This work, really sort of an encyclopedia as well as a catalog, can be obtained from Brownell Industries, Montezuma, Iowa, for $1.50.

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By Charles Edward Chapel

We have just read the page proofs of an excellent and comprehensive new book on shotguns and how to shoot them, which is scheduled for publication late in April. Putting first things first, the author very properly starts off with a chapter on gun safety, and this important subject is well illustrated with cartoons which carry a punch and point a moral.

Next follow two very informative chapters on the tools of the sport, that is, shotguns and ammunition for them. Every shotgun user will find these chapters most interesting, and will gather a wealth of information from them.

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(Published by Coward-McCann, Inc. Price not available. Available through NRA Book Service.)

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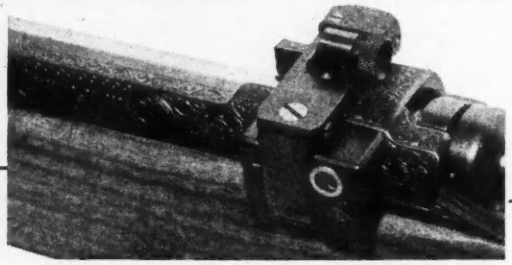

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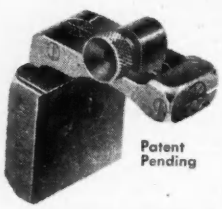

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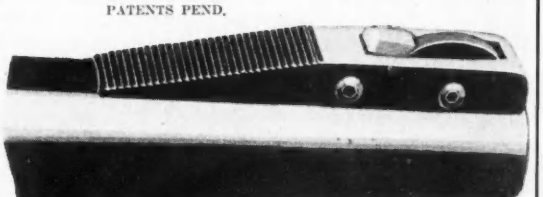

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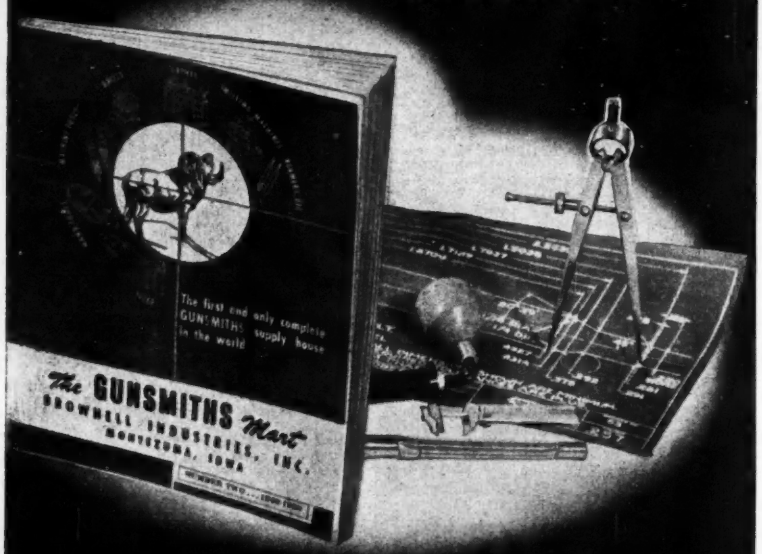
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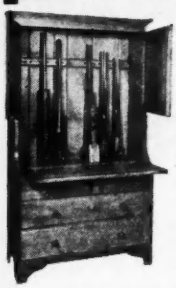

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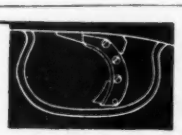

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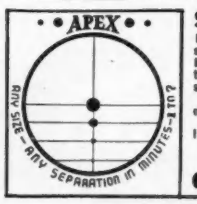

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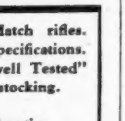

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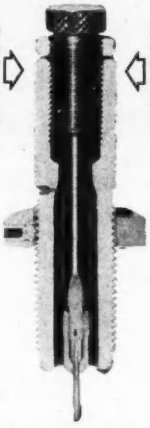

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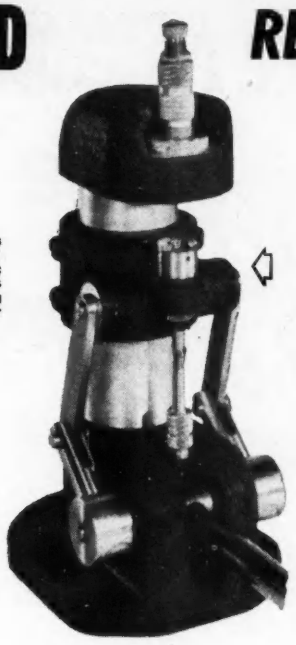

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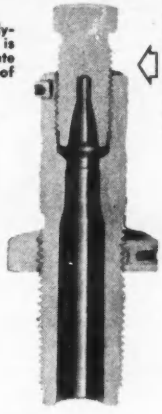

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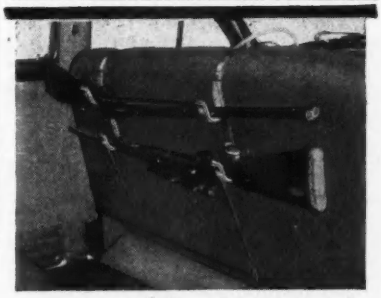

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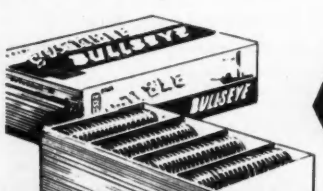

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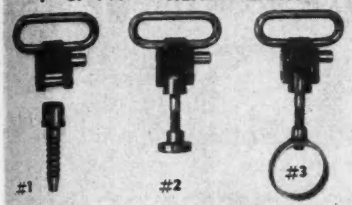

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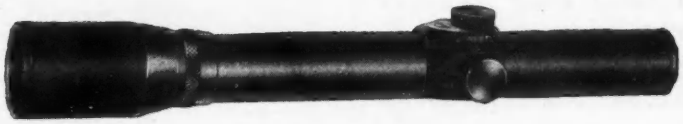

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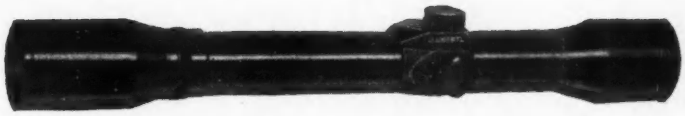

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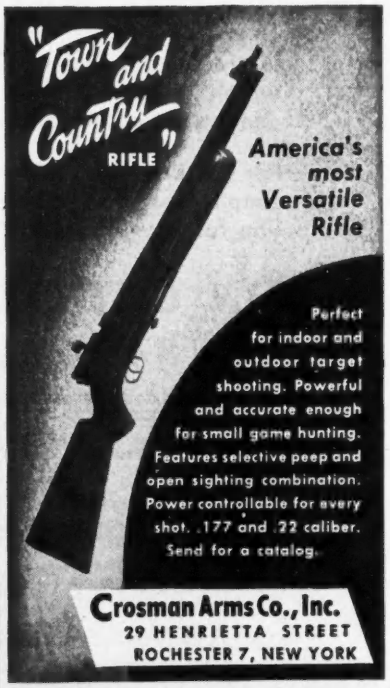

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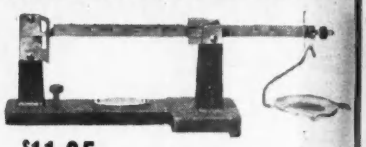

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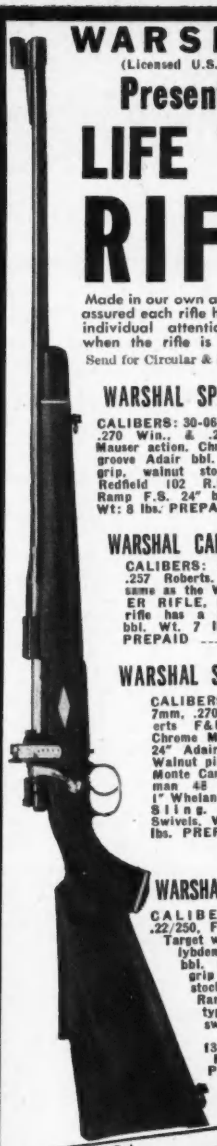

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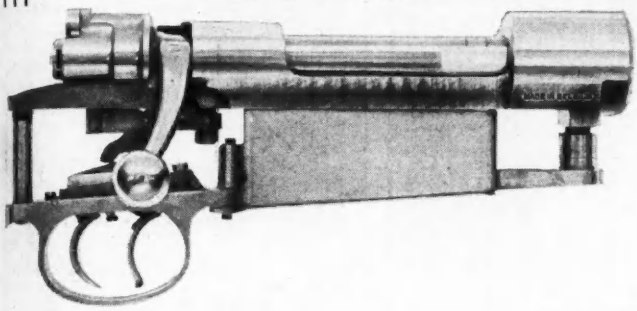

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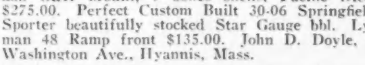

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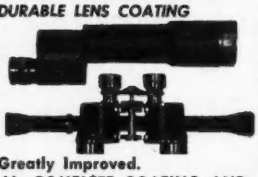

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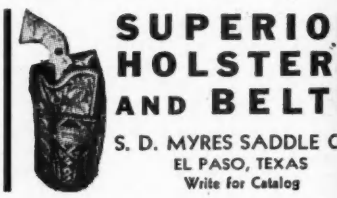

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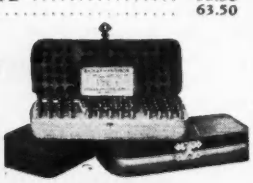

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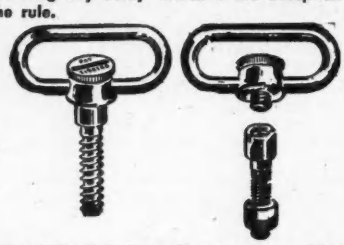

Detachable Swivels as shown, pr. $2.00
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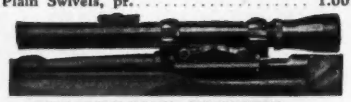

• TELESCOPE SIGHTS

Lyman 4X Challenger $85.00; Unertl 4X Hawk $52.00 - Unertl 2¾ Falcon $48.00; Unertl 6X Condor $66.00; Unertl 2" with high bases $125.00; 1½" $88.50; 1¼" $76.50; 1" $56.50; Varmint $73.50; Small Game $38.50; Super Targetspot $88.50; Jr. Targetspot $61.00 (add $1.50 for base blocks); Alaskan $60.00 - Texan $50.00; Weaver K-6 $48.50; K-4 $45.00; K2.5 $37.50 K-1 $34.50; J-4 $27.50; J2-5 $22.50 - G6 $12.50; G-4 $9.75; Weaver Detachable Mounts $9.75; G&H Mounts $19.50; Pachmayr Lo-Swing $20.00; Echo $17.50; Kim-Pike $17.50; Redfield Jr. $12.50, $14.50 & $16.50; Buehler $15.00; Buehler Safeties $6.00. Prompt installation and bolt alteration service—low prices!

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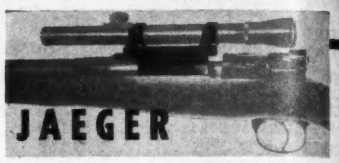

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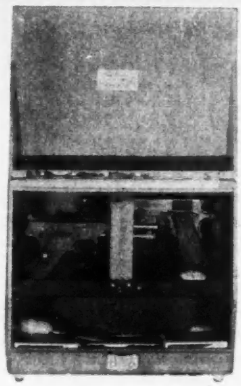

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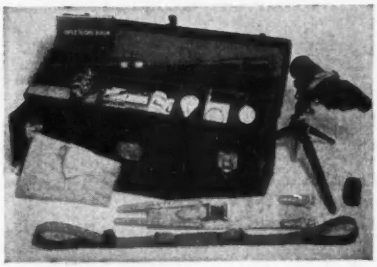

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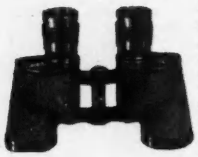

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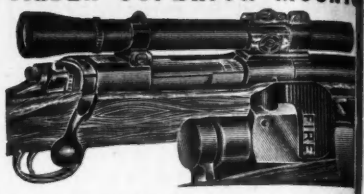

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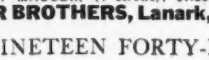
GUARD  SCREWS
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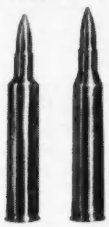

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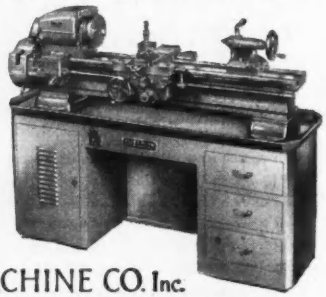

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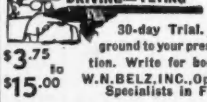

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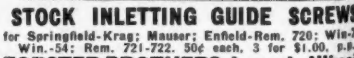

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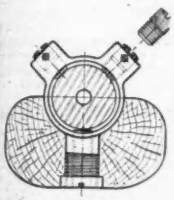

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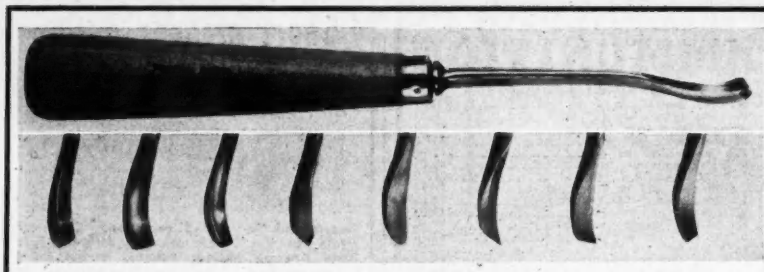

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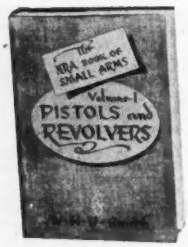

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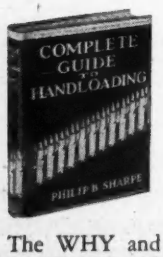

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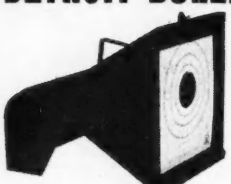

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.224"	S.Pt.Spitzer H.V.	Sierra	45, 50 & 55		2.2
*.224"	S.Pt.Rd.Nose H.V.	Sierra	45, 50 & 55		2.2
.224"	S.Pt.6-Ogive Med.V.	Moffat	45, 50 & 55		2.2
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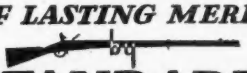

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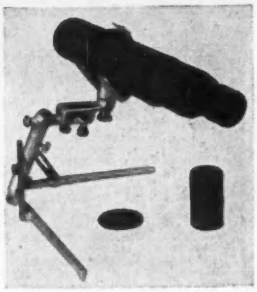

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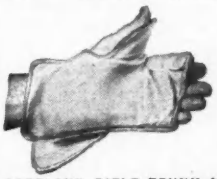

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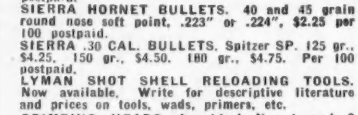

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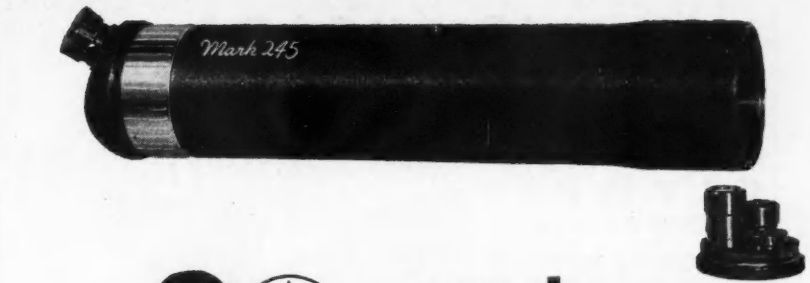

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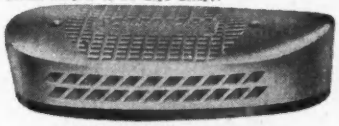

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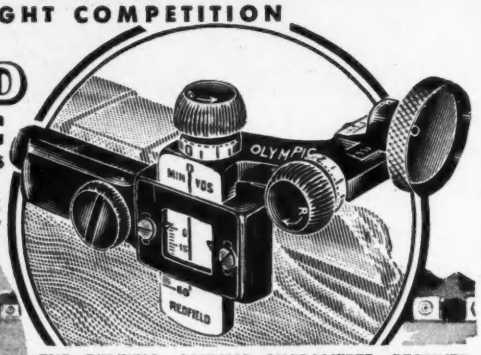

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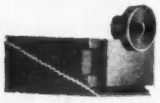

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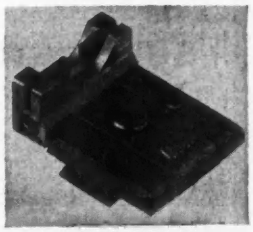

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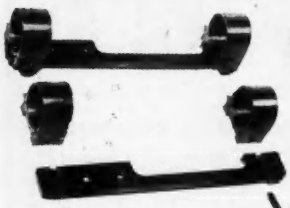

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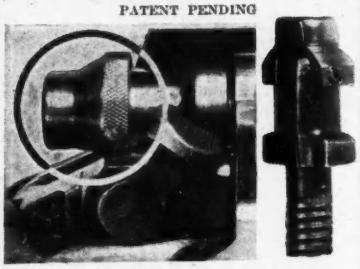

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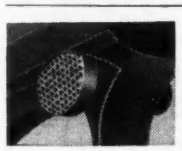

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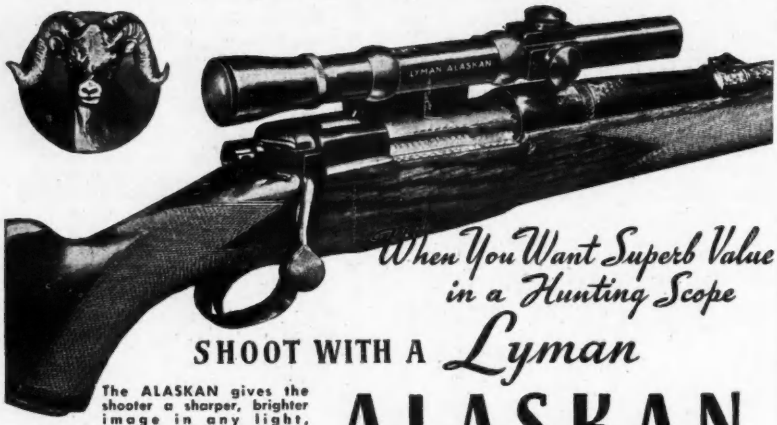

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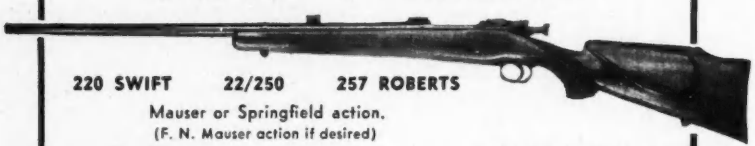

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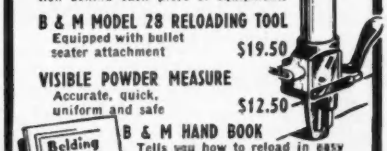

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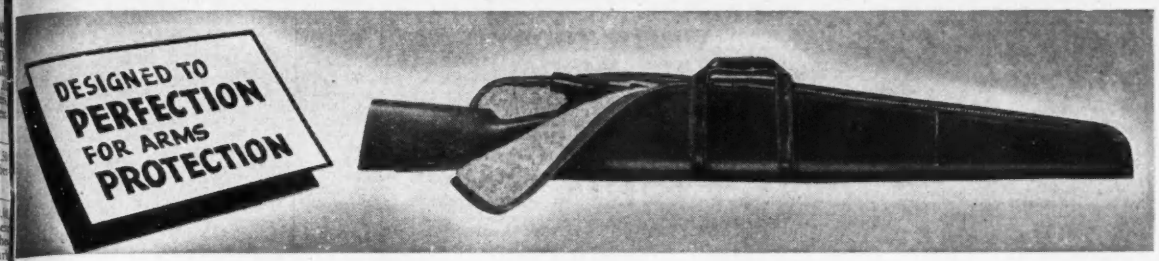

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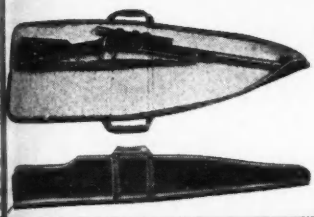

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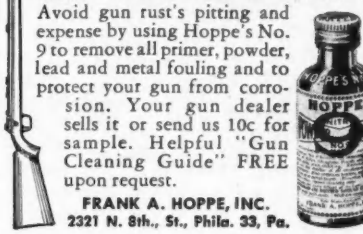

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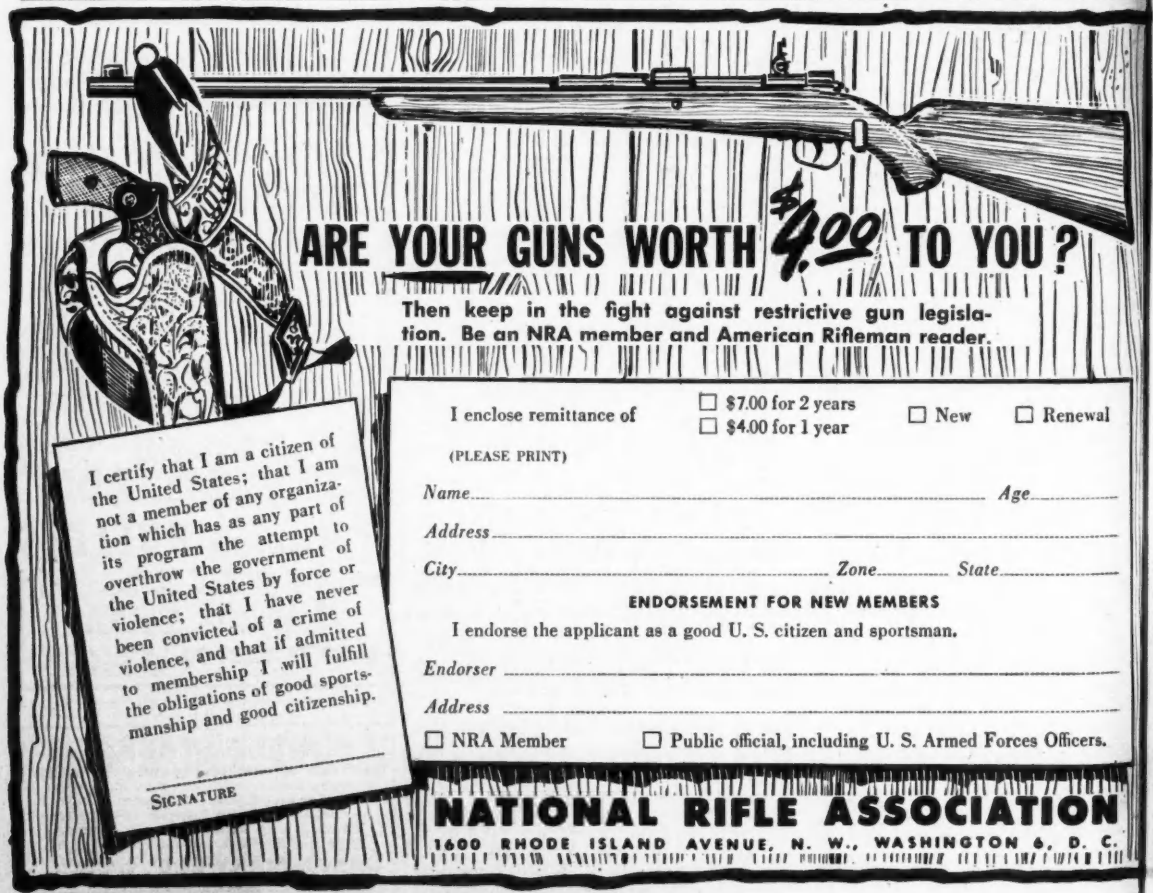
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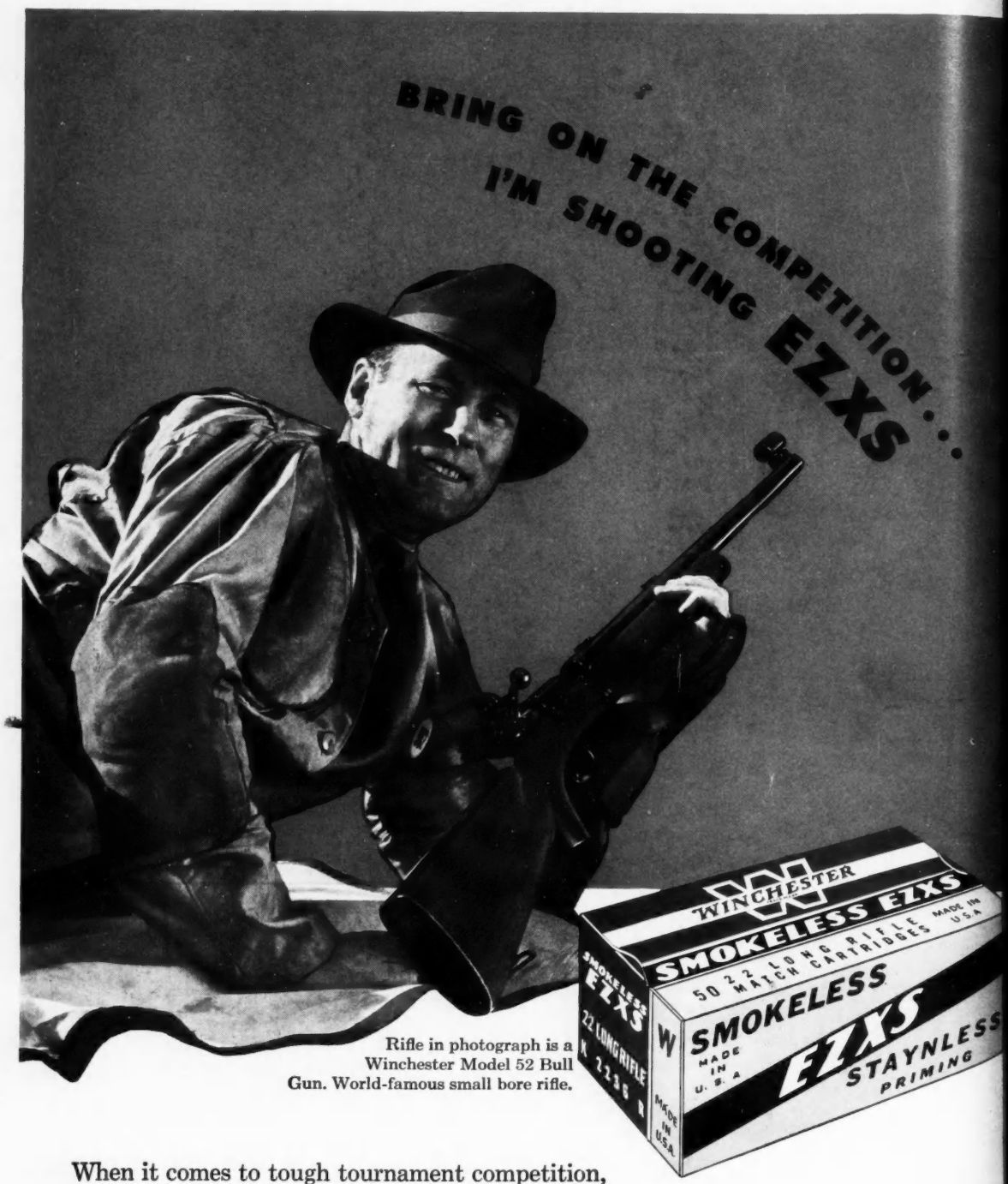

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